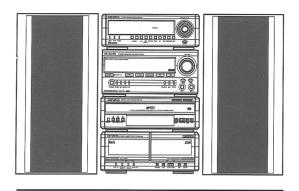
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XR-H1100 **XR-AVH1200**



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM: 2ZM-3MK2 PR4NM
- BASIC CD MECHANISM: 4ZG-1 Z3NDSHM

• TYPE :EZ, K, HR

REVISION PUBLISHING

SYSTEM	AMPLIFIER	GRAPHIC EQUALIZER	CASSETTE DECK	CD PLAYER	SPEAKERS	REMOTE CONTROL
XR-H1100	MX-NH1100	GE-NH1100	EV MIII 100	DV M11100	SX-NAVH1200	DC 74 904
XR-AVH1200	MX-NAVH1200	GE-NAVH1200	FX-NH1100	DX-NH1100	SX-NAVH1200 SX-CR677	RC-ZAS04

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" XR-H1100 (EZ,K,HR), S/M Code No. 09-994-411-6T1, XR-AVH1200 (HR), S/M Code No. 09-995-411-7T1 and XR-AVH1200 (EZ,K), S/M Code No. 09-996-411-7T2.
- If requiring information about the CD mechanism, see Service Manual of 4ZG-1 (S/M Code No.09-992-325-4N2).

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PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT

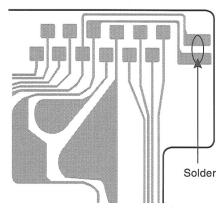
Precaution to replace Optical block

(KSS - 213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

 After the connection, remove solder shown in right figure.

PICK-UP Assy P.C.B



SPECIFICATIONS < XR-H1100>

<STEREO RECEIVER MX-NH1100>

<FM tuner section>

Tuning range Usable sensitivity (IHF) 87.5 MHz to 108 MHz EZ.K: 16.8 dBf HR: 13.2 dRf

Antenna terminals

75 ohms (unbalanced)

<MW Tuner section>

Tuning range

531 kHz to 1602 kHz (9 kHz step)

Usable sensitivity

Antenna

530 kHz to 1710 kHz (10 kHz step) 350 μV/m

Loop antenna

<LW Tuner section><EZ.K>

Tuning range Usable sensitivity Antenna

144 kHz to 290 kHz 1400 μV/m Loop antenna

<SW Tuner section≫HR>

Tuning range Antenna

5.900 MHz to 17.900 MHz

Wire antenna

<Amplifier section> Power output

Rated: 65 W + 65 W EZ,K: (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500)

HR: (1 kHZ, T.H.D. 1 %, 6 ohms) Reference: 80 W + 80 W EZ,K: (6 ohms, T.H.D. 10 %,

1 kHz/DIN 45324)

HR: (1 kHZ, T.H.D. 10 %, 6 ohms) EZ,K: DIN MUSIC POWER:

145 W + 145 W

Total harmonic distortion

0.1 % (8 W, 1 kHz, 6 ohms,

DIN AUDIO)

Inputs VIDEO/AUX: 310 mV (adjustable)

MD: 310 mV (adjustable) MIC 1, MIC 2: 1.2 mV (10 kohms)

Outputs LINE OUT: 175 mV

SPEAKERS: accept speakers of

6 ohms or more

SURROUND SPEAKERS:

accept speakers of 8 ohms to 16 ohms PHONES (stereo jack): accepts headphones of 32 ohms or more

<General>

Power requirements

EZ: 230 V AC, 50 Hz K: 230-240 V AC, 50 Hz

284 x 122 x 337 mm

HR: 120 V/ 220V-230V/ 240 V AC

switchable 50/60 Hz

Power consumption 135 W

Dimensions of main unit

 $(W \times H \times D)$

Weight of main unit

5.9 kg

<CASSETTE DECK FX-NH1100>

Track format

4 tracks, 2 channels stereo Frequency response Type II (high/CrO₂) tape:

50 Hz - 16000 Hz Type I (normal) tape:

50 Hz - 15000 Hz

Signal-to-noise ratio

60 dB (Dolby B NR ON, Type II tape

peak level)

Recording system

Heads

AC bias, AC erase Deck 1: Playback head x 1

Deck 2: Recording/playback head x 1,

erase head x 1 284 x 122 x 315 mm

Dimensions of main unit

 $(W \times H \times D)$

Weight of main unit

2.0 kg

<CD PLAYER DX-NH1100>

Laser

Semiconductor laser (λ =780 nm)

D-A converter 1 bit dual 85 dB (1 kHz, 0 dB)

Signal-to-noise ratio Harmonic distortion Wow and flutter Dimensions of main unit

0.05 % (1 kHz, 0 dB) Unmeasurable 284 x 101 x 315 mm

 $(W \times H \times D)$

Weight of main unit

2.3 kg

<GRAPHIC EQUALIZER GE-NH1100>

Dimensions of main unit

284x 101 x 328 mm

 $(W \times H \times D)$ Weight

1.7 ka

<SPEAKER SYSTEM SX-NAVH1200>

Cabinet type

Speakers

3 way (magnetic shielded type)

Woofer:

140 mm cone type x 2

Tweeter: 60 mm cone type Super tweeter: 20 mm ceramic type

Impedance

6 ohms Output sound pressure level 88 dB/W/m

Dimensions (W x H x D) Weight

250 x 443 x 250 mm EZ,K: 7.0 kg

HR: 6.0 kg

• Design and specifications are subject to change without notice.

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SPECIFICATIONS < XR-AVH1200>

<STEREO RECEIVER MX-NAVH1200>

<FM tuner section>

Tuning range

87.5 MHz to 108 MHz Usable sensitivity (IHF) EZ,K: 16.8 dBf

HR: 13.2 dBf

Antenna terminals

75 ohms (unbalanced)

<MW Tuner section>

Tuning range

531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)

Usable sensitivity

Antenna

350 μV/m Loop antenna

<LW Tuner section><EZ,K>

Tuning range Usable sensitivity Antenna

144 kHz to 290 kHz 1400 μV/m Loop antenna

<SW Tuner section><HR>

Tuning range Antenna

5.900 MHz to 17.900 MHz

Wire antenna

<Amplifier section> Power output

Front

Rated: 65 W + 65 W EZ,K: (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500)

HR: (1 kHZ, T.H.D. 1 %, 6 ohms) Reference: 80 W + 80 W EZ,K: (6 ohms, T.H.D. 10 %,

1 kHz/DIN 45324)

HR: (1 kHZ, T.H.D. 10 %, 6 ohms) EZ,K: DIN MUSIC POWER:

150 W + 150 W Rear (Surround) Rated: 20 W + 20 W EZ,K: (8 ohms, T.H.D. 1 %,

1 kHz/DIN 45500) HR: (1 kHZ, T.H.D.

1 %, 8 ohms)

Reference: 25 W + 25 W

EZ,K: (8 ohms, T.H.D. 10 %, 1 kHz/

DIN 45324)

HR: (1 kHZ, T.H.D. 10 %, 8 ohms)

EZ,K: DIN MUSIC POWER:

46 W + 46 W Center Rated: 20 W

EZ,K: (8 ohms, T.H.D. 1 %,

1 kHz/DIN 45500)

HR: (1 kHZ, T.H.D. 1 %, 8 ohms)

Reference: 25 W

EZ,K: (8 ohms, T.H.D. 10 %,

1 kHz/DIN 45324)

HR: (1 kHZ, T.H.D. 10 %, 8 ohms) EZ,K: DIN MUSIC POWER: 46 W

Total harmonic distortion AUDIO/Front)

Outputs

EZ,K: 0.1 % (8 W, 1 kHz, 6 ohms, DIN

HR: 0.1 % (8 W, 1 kHz, 6 ohms, DIN

AUDIO)

Inputs VIDEO/AUX: 310 mV (adjustable)

MD: 310 mV (adjustable) MIC 1, MIC 2: 1.2 mV (10 kohms)

5.1CH INPUT

FRONT (L,R): 400 mV SURROUND (L,R): 400 mV

CENTER: 400 mV SUB WOOFER: 400 mV LINE OUT: 175 mV

SUB WOOFER<EZ,K>: 1V SPEAKERS: accept speakers of 6 ohms or more

SURROUND SPEAKERS:

accept speakers of 8 ohms to 16 ohms CENTER SPEAKER<EZ.K>: accept speakers of 8 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

<General>

Power requirements EZ,K: 230 V AC, 50 Hz

HR: 120 V/ 220V-230V/ 240 V AC

switchable 50/60 Hz

EZ,HR: 155 W K: 160 W

Dimensions of main unit 284 x 122 x 387 mm $(W \times H \times D)$

<CASSETTE DECK FX-NH1100>

Track format

Power consumption

Weight of main unit

Frequency response

4 tracks, 2 channels stereo Type II (high/CrO₂) tape:

50 Hz - 16000 Hz Type I (normal) tape: 50 Hz – 15000 Hz 60 dB (Dolby B NR ON, Type II tape

Signal-to-noise ratio

peak level) AC bias, AC erase

5.9 kg

Recording system Heads Deck 1: Playback head x 1

Deck 2: Recording/playback head x 1,

Semiconductor laser (λ =780 nm)

erase head x 1

Dimensions of main unit

 $(W \times H \times D)$

Weight of main unit

284 x 122 x 315 mm

85 dB (1 kHz, 0 dB)

0.05 % (1 kHz, 0 dB)

2.0 kg

1 bit dual

<CD PLAYER DX-NH1100>

Lager

D-A converter

Signal-to-noise ratio Harmonic distortion

Wow and flutter Dimensions of main unit

 $(W \times H \times D)$

Unmeasurable 284 x 101 x 315 mm

Weight of main unit 2.3 kg

<GRAPHIC EQUALIZER GE-NAVH1200>

Dimensions of main unit

 $(W \times H \times D)$

284x 101 x 328 mm

Weight

1.7 kg

<SPEAKER SYSTEM SX-NAVH1200>

Cabinet type

Speakers

3 way (magnetic shielded type) Woofer:

140 mm cone type x 2

Tweeter:

60 mm cone type Super tweeter: 20 mm ceramic type

Impedance Output sound pressure level

Dimensions (W x H x D) Weight

6 ohms 88 dB/W/m 250 x 443 x 250 mm

EZ,K: 7.0 kg HR: 6.0 kg

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MX-NH1100/NAVH1200

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	Kanri No.	DESCRIPTION	REF. NO.	PART NO.	Kanri No.	DESCRIPTION
IC	8Z-SP1-605-010 87-A20-914-010 87-A21-202-040 87-A20-804-040 87-017-888-080	IC,SPS- C-IC,M6 C-IC,NJ	2445AFP M2152M		87-A40-002-080 87-A40-234-080 87-A40-442-080 87-A40-270-080 87-A40-500-080	ZENER ZENER C-DIO	,MTZJ5.1C ,MTZJ5.6A ,MTZJ9.1A DE MC2838 ,MTZJ30B
	87-A20-869-040 87-070-127-110 87-A20-913-010 87-A21-051-040 87-A21-097-040	IC,LC72 IC,LA18 C-IC,BU C-IC,M6	131 D 37NL 9990-03FS 2463AFP<1200>	C101 C102 C103 C104 C105	87-010-917-090 87-010-917-090 87-016-658-090 87-016-658-090 87-012-368-080	CAP, E CAP, E CAP, E	3300-50 M SMG 3300-50 M SMG 4700-35 SMG 4700-35 SMG ,S 0.1-50 F
TRANSISTO	87-A21-015-040 87-A21-018-040 87-A20-440-040	C-IC,M6	2491FP<1200> 5849BFP631D 1920FS	C106 C107 C108 C109 C110	87-012-368-080 87-012-368-080 87-012-368-080 87-010-196-080 87-010-196-080	C-CAP C-CAP CHIP	,S 0.1-50 F ,S 0.1-50 F ,S 0.1-50 F CAPACITOR, 0.1-25 CAPACITOR, 0.1-25
	87-026-245-080 87-026-610-080 87-A30-076-080 87-A30-083-080 87-A30-075-080	TR, KTC3 C-TR, 2S TR, CSD1	198GR C3052F 489B	C111 C112 C113 C114 C115	87-010-196-080 87-010-196-080 87-010-247-080 87-010-385-080 87-010-385-080	CAP, CAP,	CAPACITOR, 0.1-25 CAPACITOR, 0.1-25 ELECT 100-50V ELECT 220-25V ELECT 220-25V
	87-026-609-080 89-213-702-010 87-A30-087-080 87-A30-257-080 87-A30-268-040	TR,2SB1 C-FET,2 C-TR,2S	370 (1.8W) SK2158	C116 C117 C118 C119 C120	87-010-247-080 87-010-430-080 87-010-263-080 87-010-260-080 87-010-403-080	CAP, CAP, CAP,	ELECT 100-50V ELECT 100-63 ELECT 100-10V ELECT 47-25V ELECT 3.3-50V
	87-A30-190-080 87-A30-071-080 87-A30-106-070 87-A30-072-080 87-A30-073-080	C-TR,RT C-TR,CM C-TR,RT	1N 144C BT5551 1P 144C	C121 C122 C123 C124 C125	87-010-174-080 87-010-403-080 87-010-247-080 87-010-112-080 87-010-235-080	CAP, CAP, CAP,	HIP SL470P (K) ELECT 3.3-50V ELECT 100-50V ELECT 100-16V 470-16 SME
	87-A30-074-080 87-026-263-080 89-333-266-080 89-112-965-080 87-026-226-080	C-TR,RN C-TR,2S TR,2SA1	1410	C130 C131 C132 C133 C190	87-010-399-090 87-010-399-090 87-012-368-080 87-012-368-080 87-010-196-080	CAP, E C-CAP C-CAP	3300-35 SME<1200> 3300-35 SME<1200> ,S 0.1-50 F<1200> ,S 0.1-50 F<1200> CAPACITOR, 0.1-25
	87-A30-196-080 89-327-143-080 87-A30-086-070 89-503-602-080 87-A30-108-010	TR,2SC2 C-TR,CS C-FET,2	714 (0.1W) D1306E SK360E	C201 C202 C209 C210 C211	87-010-322-080 87-010-322-080 87-010-405-080 87-010-405-080 87-010-183-080	C-CAP CAP, CAP,	,S 100P-50 CH ,S 100P-50 CH ELECT 10-50V ELECT 10-50V ,S 2700P-50 B
	87-A30-109-010 87-A30-186-010 87-A30-137-010 87-A30-138-010	FET,2SK TR,2SD2	3053 494	C212 C213 C214 C215 C216	87-010-183-080 87-010-187-080 87-010-187-080 87-010-405-080 87-010-405-080	CAP C CAP C CAP,	,S 2700P-50 B HIP S5600P HIP S5600P ELECT 10-50V ELECT 10-50V
DIODE	87-070-274-080 87-A40-547-090 87-017-447-010 87-020-465-080	DIODE, D DIODE, G		C217 C218 C219 C220 C221	87-010-408-080 87-010-408-080 87-A10-516-080 87-A10-516-080 87-016-462-080	CAP, C-CAP C-CAP	ELECT 47-50V ELECT 47-50V ,S 100P-200 J CH ,S 100P-200 J CH ,S 1-16 F
	87-A40-468-080 87-A40-469-080 87-A40-435-080 87-A40-345-080 87-A40-004-080	C-DIODE C-DIODE ZENER, M ZENER, M	, HSM2836CTR , HSM2838CTR TZJ30D TZJ10C	C222 C223 C226 C227 C229	87-016-462-080 87-010-405-080 87-010-405-080 87-010-407-080 87-010-407-080	CAP, CAP, CAP,	,S 1-16 F ELECT 10-50V ELECT 10-50V ELECT 33-50V ELECT 33-50V
	87-070-345-080 87-017-931-080 87-A40-370-090 87-070-136-080 87-A40-488-080	DIODE, I ZENER, M DIODE, R ZENER, M	N4148 TZJ5.6B K46-P20 TZJ5.1B	C230 C231 C232 C233 C234	87-010-408-080 87-010-186-080 87-010-186-080 87-010-401-080 87-010-401-080	CAP,C CAP,C CAP,	ELECT 47-50V HIP 4700P HIP 4700P ELECT 1-50V ELECT 1-50V
	87-A40-438-080			C235	87-010-196-080) CHIP	CAPACITOR, 0.1-25

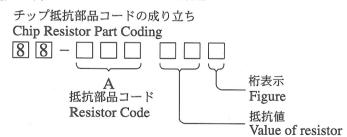
REF.		Kanri No.	DESCRIPTION	REF. NO		(anri No.	DESCRIPTION		REF. NO		KANRI NO.	DESCRIPTION	REF. NO		Kanri No.	DESCRIPTION
C290 C301 C302 C303 C304	87-010-188-080 87-010-402-080 87-010-402-080 87-010-178-080 87-010-178-080	CAP, CAP, CHIP	CHIP 6800P ELECT 2.2-50V<1200> ELECT 2.2-50V<1200> CAP 1000P<1200> CAP 1000P<1200>	C608 C609 C610 C611 C612	87-010-405-080 87-010-374-080 87-010-374-080 87-010-405-080 87-010-112-080	CAP, E CAP, E CAP, E	LECT 10-50V LECT 47-10V LECT 47-10V LECT 10-50V LECT 100-16V		CN123 CN131 CN601 CN611 CN621	87-049-469-010 87-049-919-010 87-099-196-010 87-099-194-010 87-A60-063-010	CON CON CON	IN,4P V IN,3P EH V WHT<1200> IN,8P 6216V<1100> IN,6P 6216V<1200> IN,4P V 9604S-04C <ez,k></ez,k>	C202 C203 C204 C205 C206	87-010-264-040 87-016-081-080 87-010-981-040 87-010-194-080 87-010-405-040	CAP,E C-CAP, CAP,E	100-10 5L S 0.1-16 RK 22-35 5L SRE HIP 0.047 10-50
C305 C306 C307 C308 C309	87-010-404-080 87-010-404-080 87-010-322-080 87-010-322-080 87-010-405-080	CAP, C-CAF C-CAF	ELECT 4.7-50V<1200> ELECT 4.7-50V<1200> P,S 100P-50 CH<1200> P,S 100P-50 CH<1200> ELECT 10-50V<1200>	C613 C614 C668 C701 C702	87-010-173-080 87-010-173-080 87-010-190-080 87-010-402-080 87-010-402-080	C-CAP, S CHIP CAP, E	S 390P-50 SL S 390P-50 SL F 0.01 LECT 2.2-50V LECT 2.2-50V		CN901 CN902 CN903 CN906 CN907	87-099-719-010 87-009-877-010 87-009-063-010 87-A60-058-010 87-A60-057-010	CON CON	N,30P TYK-B(X) NN,9P FG NNECTOR 11P NN,10P V 9604S-10C NN,11P V 9604S-11C	C207 C208 C209 C211 C220	87-010-194-080 87-A10-189-040 87-010-071-040 87-012-140-080 87-016-669-080	CAP,E CAP,E CAP 47	HIP 0.047 220-10 1-50 M 5L SRE 0P S 0.1-25 K B
C310 C313 C314 C315 C316	87-010-405-080 87-010-260-080 87-010-260-080 87-A10-596-080 87-A10-596-080	CAP, CAP, C-CAP	ELECT 10-50V<1200> ELECT 47-25V<1200> ELECT 47-25V<1200> ,S 100P-100 J CH<1200> ,S 100P-100 J CH<1200>	C703 C704 C705 C706 C707	87-016-669-080 87-016-669-080 87-016-460-080 87-016-460-080 87-012-365-080	C-CAP, C-CAP, C-CAP,	S 0.1-25 K B S 0.1-25 K B S 0.22-16 B S 0.22-16 B S 0.027-25VBK		CN951 FB179 FB501 FB503 FB504	87-A60-109-010 87-008-372-080 87-003-223-010 87-008-372-080 87-008-372-080	FIL FER FIL	IN,2P V S2M-2W ITER,EMI BL OIRNI<1200(EZ,K)> RRITE BEAD BLO2RN2 ITER,EMI BL OIRNI<1200(EZ,K)> ITER,EMI BL OIRNI<1200(EZ,K)>	C221 C222 C241 C242 C243	87-016-669-080 87-010-401-040 87-010-178-080 87-010-318-080 87-010-314-080	CAP,E CHIP C C-CAP,	S 0.1-25 K B 1-50 SME AP 1000P S 47P-50 CH S 22P-50V
C317 C318 C319 C321 C322	87-010-544-080 87-010-544-080 87-010-182-080 87-012-145-080 87-012-145-080	CAP, C-CAP CAP,	ELECT 0.1-50V<1200> ELECT 0.1-50V<1200> ,S 2200P-50 B<1200> CHIP S 270P CH<1200> CHIP S 270P CH<1200>	C708 C709 C710 C711 C712	87-012-365-080 87-010-956-080 87-010-956-080 87-010-197-080 87-010-197-080	CHIP-CA CHIP-CA CAP, CI	S 0.027-25VBK AP,S 0.068-25B AP,S 0.068-25B HIP 0.01 DM HIP 0.01 DM		FB901 FB902 FB903 J901 J902	87-008-372-080 87-008-372-080 87-008-372-080 87-A60-483-010 87-A60-617-010	FIL FIL JAC	TER,EMI BL OIRNI TER,EMI BL OIRNI 1200(EZ,K)> TER,EMI BL OIRNI 1200(EZ,K)> TK,DIA6.3 BLK ST W/S KM 1200> MINAL,SP 4P (MSC)	C244 C247 C248 C251 C252	87-010-316-080 87-016-669-080 87-010-192-080 87-010-197-080 87-010-197-080	C-CAP, C-CAP, CAP, C	S 33P-50 CH S 0.1-25 K B S 0.022-50 F HIP 0.01 DM HIP 0.01 DM
C323 C324 C351 C352 C353	87-016-462-080 87-016-462-080 87-010-402-080 87-010-178-080 87-010-404-080	C-CAP CAP, CHIP	,S 1-16 F<1200> ,S 1-16 F<1200> ELECT 2.2-50V<1200> CAP 1000P<1200> ELECT 4.7-50V<1200>	C713 C714 C715 C716 C717	87-010-198-080 87-010-198-080 87-010-183-080 87-010-183-080 87-010-188-080	CAP, CE C-CAP, S C-CAP, S	HIP 0.022 HIP 0.022 5 2700P-50 B 5 2700F-50 B IP 6800P		J903 J903 J904 J905 L601	87-A60-653-010 87-A60-652-010 87-A60-684-010 87-A60-658-010 87-005-372-080	JAC: JAC: JAC:	CK,PIN 4P BLK/BLK<1100> CK,PIN 4P ORN/BLK<1200> CK,PIN 6P OR/BLK/RED<1200> CK,PIN 6P WHITE/RED LL,1MH-K LALO3 <ez,k></ez,k>	C253 C254 C255 C301 C302	87-A10-189-040 87-010-197-080 87-018-134-080 87-010-404-040 87-010-404-040	CAP, C CAPACI CAP,E	220-10 HIP 0.01 DM TOR,TC-U 0.01-16 4.7-50 SME 4.7-50 SME
C354 C355 C355 C357 C358	87-010-322-080 87-010-405-080 87-010-404-080 87-010-260-080 87-A10-596-080	CAP, CAP, CAP, CAP,	,S 100P-50 CH<1200> ELECT 10-50V<1200HR> ELECT 4.7-50V<1200EZ,K> ELECT 47-25V<1200> ,S 100P-100 J CH<1200>	C718 C719 C720 C721 C722	87-010-188-080 87-010-178-080 87-010-178-080 87-010-182-080 87-010-182-080	CHIP CA CHIP CA C-CAP,S	IP 6800P AP 1000P AP 1000P 5 2200P-50 B 8 2200P-50 B		L602 L901 L902 L911 L912	87-005-372-080 87-003-383-010 87-003-383-010 87-003-383-010 87-003-383-010	COI	L,1MH-K LALO3 <ez,k> LL,1UH-S LL,1UH-S LL,1UH-S<ll,1uh-s<ll,1uh-s<l200></ll,1uh-s<ll,1uh-s<l200></ez,k>	C340 C341 C342 C343 C344	87-010-175-080 87-010-175-080 87-010-175-080 87-010-175-080 87-010-175-080	CAP 56 CAP 56 CAP 56 CAP 56	OP OP OP
C359 C360 C361 C381 C391	87-010-544-080 87-012-145-080 87-016-462-080 87-010-402-080 87-010-260-080	CAP, C C-CAP CAP, 1	ELECT 0.1-50V<1200> CHIP S 270P CH<1200> ,S 1-16 F<1200> ELECT 2.2-50V<1200> ELECT 47-25V<1200>	C730 C731 C735 C736 C737	87-010-404-080 87-010-112-080 87-010-322-080 87-010-322-080 87-010-322-080	CAP, EI C-CAP, S C-CAP, S	JECT 4.7-50V JECT 100-16V 3 100P-50 CH 5 100P-50 CH 5 100P-50 CH			87-003-383-010 87-099-570-010 87-099-568-010 87-002-330-080 87-A00-262-080	CON: CON: ICP	EL,1UH-S<1200> IN,13P TUC-P13P-B1<1200> IN,11P TUC-P11P-B1<1200> P-N5 8,M/F 0.15-2W J	C345 C346 C347 C348 C349	87-010-175-080 87-010-175-080 87-010-175-080 87-010-175-080 87-010-175-080	CAP 56 CAP 56 CAP 56 CAP 56	0P 0P 0P
C503 C504 C511 C512 C513	87-010-180-080 87-010-180-080 87-010-405-080 87-010-405-080 87-010-404-080	C-CER CAP, I CAP, I	1500P 1500P ELECT 10-50V ELECT 10-50V ELECT 4.7-50V	C738 C900 C901 C902 C903	87-010-196-080 87-010-178-080 87-010-182-080 87-010-182-080 87-010-196-080	CHIP CA C-CAP,S C-CAP,S	APACITOR, 0.1-25 AP 1000P<1200> 3 2200P-50 B 5 2200P-50 B APACITOR, 0.1-25		R238 R239 R240 R331 R332	87-A00-262-080 87-A00-262-080 87-A00-262-080 87-022-050-080 87-022-050-080	RES RES RES	G,M/F 0.15-2W J G,M/F 0.15-2W J G,M/F 0.15-2W J G,M/F 0.22-1W J<1200> G,M/F 0.22-1W J<1200>	C601 C602 C603 C604 C605	87-010-405-040 87-010-176-080 87-010-186-080 87-010-166-080 87-010-321-080	CAP, CH	10-50 S 680P-50 SL IP 4700P S 100P-50 SL APACITOR,82P(J)
C514 C519 C520 C521 C522	87-010-404-080 87-012-142-080 87-016-669-080 87-016-083-080 87-010-183-080	CAP, S C-CAP, C-CAP,	BLECT 4.7-50V S 0.33-16 S 0.1-25 K B S 0.15-16 RK S 2700P-50 B	C906 C907	87-010-196-080 87-010-196-080 87-010-196-080 87-010-190-080 87-010-190-080	CHIP CA	PACITOR, 0.1-25 F 0.01		R366 R367	87-022-050-080 87-022-050-080 87-022-050-080 87-022-050-080 87-022-214-080	RES RES RES	5,M/F 0.22-1W J<1200> 5,M/F 0.22-1W J<1200> 5,M/F 0.22-1W J<1200> 5,M/F 0.22-1W J<1200> ES S100K-1/10WF<1200>	C609 C610	87-010-490-040 87-010-166-080 87-010-545-040 87-010-177-080 87-010-981-040	C-CAP, CAP,E C-CAP,	LECT 0.1-50 S 100P-50 SL 0.22-50 SME S 820P-50 SL 22-35 5L SRE
C523 C525 C526 C531 C532	87-016-669-080 87-010-404-080 87-010-404-080 87-010-405-080 87-010-263-080	CAP, E CAP, E CAP, E	S 0.1-25 K B ELECT 4.7-50V ELECT 4.7-50V ELECT 10-50V ELECT 100-10V	C911 C912	87-012-368-080 87-012-368-080 87-010-190-080 87-010-190-080 87-010-182-080	C-CAP,S S CHIP S CHIP	0.1-50 F 0.1-50 F F 0.01 F 0.01<1200> 2200P-50 B<1200>		R910 R911	87-A00-440-050 87-A00-440-050 87-A00-440-050 87-A00-440-050 87-A00-527-080	RES RES RES	5,220-1/2W J RP 5,220-1/2W J RP 5,220-1/2W J RP 5,220-1/2W J RP 5,10-1/4W J NAT	C615 C615	87-010-248-040 87-010-075-040 87-010-498-040 87-016-526-080 87-010-170-080	CAP, E CAP, E C-CAP,	220-10 SME 10-16 5L<1100> 10-16 GAS<1200> S 0.47-16 BK SL 220P(K)
C533 C534 C535 C536 C537	87-010-263-080 87-010-406-080 87-010-195-080 87-012-142-080 87-010-196-080	CAP, E C-CAP, CAP, S	ELECT 100-10V ELECT 22-50 S 0.068-25 F S 0.33-16 EAPACITOR, 0.1-25	C915 C916 C917	87-010-190-080 87-010-190-080 87-010-190-080 87-010-190-080 87-012-157-080	S CHIP S CHIP S CHIP	F 0.01<1200(EZ,K)> F 0.01<1200(EZ,K)> F 0.01<1200(EZ,K)> F 0.01<1200(EZ,K)> 6 0.01<1200(EZ,K)>		R915 R916 R941	87-A00-527-080 87-A00-527-080 87-A00-527-080 87-A00-527-080 87-A00-527-080	RES RES RES	S,10-1/4W J NAT S,10-1/4W J NAT S,10-1/4W J NAT S,10-1/4W J NAT<1200> S,10-1/4W J NAT<1200>	C803 C804 C806	87-010-176-080 87-010-187-080 87-010-213-080 87-010-494-040 87-010-196-080	CAP CH C-CAP, CAP,E	S 680P-50 SL IP S5600P S 0.015-50 B 1-50 GAS APACITOR,0.1-25
C538 C539 C540 C541 C542	87-010-404-080 87-010-404-080 87-010-320-080 87-010-320-080 87-010-320-080	CAP, E CHIP C CHIP C	CLECT 4.7-50V CLECT 4.7-50V CAP 68P CAP 68P CAP 68P	C922 C923 C924	87-012-157-080 87-012-157-080 87-012-157-080 87-012-157-080 87-012-157-080	C-CAP,S C-CAP,S C-CAP,S	330P-50 CH 330P-50 CH 330P-50 CH 330P-50 CH <ez,k> 330P-50 CH<ez,k></ez,k></ez,k>		TH201 TH202 W101	87-A00-527-080 87-A91-081-080 87-A91-081-080 8Z-SP1-627-010 88-908-281-110	C-T: C-T: F-C:	3,10-1/4W J NAT<1200> CHMS,100K-K 20P CHMS,100K-K 20P CABLE,7P 2.5 280MM CABLE,8P-1.25 280MM<1100>	C810 C811 C812	87-012-155-080 87-010-264-040 87-010-552-040 87-010-560-040 87-010-318-080	CAP,E CAP,E CAP,E	180P-50CH 100-10 5L 22-16 GAS 10-50 GAS S 47P-50 CH
C545 C547 C548 C601 C602	87-010-196-080 87-010-401-080 87-010-401-080 87-010-401-080 87-010-401-080	CAP, E CAP, E CAP, E	APACITOR,0.1-25 LECT 1-50V LECT 1-50V LECT 1-50V LECT 1-50V	C942 C943 C944	87-010-196-080 87-010-196-080 87-010-993-080 87-010-993-080 87-010-196-080	CHIP CA C-CAP,S C-CAP,S	PACITOR, 0.1-25<1200 PACITOR, 0.1-25<1200 0.056-25 B<1200> 0.056-25 B<1200> PACITOR, 0.1-25<1200	>	W621 W906 W907	88-906-301-110 88-904-151-110 88-910-071-110 88-911-121-110 87-A90-460-010	FF-	CABLE,6P-1.25<1200> CABLE,4P-1.25 150MM<1100> CABLE,10P-1.25 70MM CABLE,11P-1.25 R,WIRE 2.5-7P	C823 C901 C902	87-010-318-080 87-010-318-080 87-012-141-080 87-012-141-080 87-016-526-080	C-CAP, CHIP-C CHIP-C	S 47P-50 CH S 47P-50 CH APACITOR,0.22-16F<1100> APACITOR,0.22-16F<1100> S 0.47-16 BK<1100>
C603 C604 C605 C606 C607	87-010-182-080 87-010-182-080 87-010-369-080 87-010-369-080 87-010-405-080	C-CAP, C-CAP, C-CAP,	S 2200P-50 B S 2200P-50 B S 0.033-25 K B S 0.033-25 K B LECT 10-50V	C951 C952 C953	87-010-993-080 87-010-401-080 87-010-263-080 87-010-380-080 87-049-919-010	CAP, EL CAP, EL CAP, EL	0.056-25 B<1200> ECT 1-50V ECT 100-10V ECT 47-16V EH V WHT					P CAPACITOR, 0.1-25 AP,S 0.022-50 F	C905 C906 C907	87-010-183-080 87-010-176-080 87-016-552-080 87-016-552-080 87-010-183-080	C-CAP, C-CAP, C-CAP,	S 2700P-50 B<1100> S 680P-50 SL<1100> S 0.082-16 B K<1100> S 0.082-16 B K<1100> S 2700P-50 B<1100>

REF. N		Kanri No.	DESCRIPTION	REF. NO). PART NO. K.	ANRI DESCRIPTION	REF. NO		KANRI NO.	DESCRIPTION	REF. NO.	PART NO. KA	NRI DESCRIPTION
C909 C910 C911 C912 C913	87-010-176-080 87-012-142-080 87-010-196-080 87-016-526-080 87-010-401-040	C-CAP, CAP, S CHIP C C-CAP,	S 680P-50 SL<1100> S 0.33-16<1100> CAPACITOR,0.1-25<1100> S 0.47-16 BK<1100> 1-50 SME<1100>	C808 C809 C810 C811 C812	87-010-401-080 87-010-196-080 87-010-112-080 87-010-402-080 87-010-402-080	CAP, ELECT 1-50V CHIP CAPACITOR,0.1-25 CAP, ELECT 100-16V CAP, ELECT 2.2-50V CAP, ELECT 2.2-50V	C711 C712 C713 C714 C715	87-010-263-080 87-010-196-080 87-012-286-080 87-012-286-080 87-012-195-080	CAP, E CHIP (CAP, U CAP, U	ELECT 100-10V CAPACITOR,0.1-25 J 0.01-25 J 0.01-25 U 100P-50CH <ez,k></ez,k>	C859 C861 C861 C862 C862	87-012-286-080 87-012-266-080 87-012-199-080 87-012-266-080 87-012-199-080	CAP, U 0.01-25 <ez,k> C-CAP,U 220P-50 B<1100(EZ,K)> C-CAP,U 220P-50 CH<1200(EZ,K)> C-CAP,U 220P-50 B<1100(EZ,K)> C-CAP,U 220P-50 CH<1200(EZ,K)></ez,k>
C914 C915 C916 C917 C918	87-010-494-040 87-010-184-080 87-010-184-080 87-010-553-040 87-010-196-080	CHIP C CHIP C CAP, E	1-50 GAS<1100> CAPACITOR 3300P(K)<1100> CAPACITOR 3300P(K)<1100> 47-16 GAS<1100> CAPACITOR,0.1-25<1100>	C813 C814 C815 C816 C817	87-010-401-080 87-010-401-080 87-010-546-080 87-010-546-080 87-010-221-080	CAP, ELECT 1-50V CAP, ELECT 1-50V CAP, ELECT 0.33-50V CAP, ELECT 0.33-50V CAP, ELECT 470-10V	C717 C719 C720 C721 C722	87-012-286-080 87-012-286-080 87-012-195-080 87-012-176-080 87-012-176-080	CAP, U		C863 C864 C865 C866 C866	87-012-270-080 87-010-405-080 87-010-196-080 87-010-405-080 87-012-273-080	C-CAP,U 470P-50 KB <ez,k> CAP, ELECT 10-50V<ez,k> CHIP CAPACITOR,0.1-25<ez,k> CAP, ELECT 10-50V<1100(EZ,K)> C-CAP,U 820P-50 B<1200(EZ,K)></ez,k></ez,k></ez,k>
C919 C920 C921 C922 CN101	87-010-264-040 87-010-318-080 87-010-318-080 87-010-318-080 87-099-720-010	C-CAP, C-CAP, C-CAP,	100-10 5L<1100> S 47P-50 CH<1100> S 47P-50 CH<1100> S 47P-50 CH<1100> OP TYK-B(P)	C818 C819 C820 C821 C822	87-A10-891-080 87-A10-800-080 87-010-374-080 87-010-196-080 87-A10-804-080	CAP,E 4.7-25 SME(K) C-CAP,S 6800P-16 J B CM CAP, ELECT 47-10V CHIP CAPACITOR,0.1-25 C-CAP,S 0.1-25 J B	C723 C725 C727 C728 C753	87-012-274-080 87-012-274-080 87-010-196-080 87-010-248-080 87-010-263-080	CHIP (CHIP (CAP, I	CAP,U 1000P-50B CAP,U 1000P-50B CAPACITOR,0.1-25 ELECT 220-10V ELECT 100-10V <ez,k></ez,k>	C867 C868 C869 C940 C941	87-012-286-080 87-012-184-080 87-012-180-080 87-012-286-080 87-012-182-080	CAP, U 0.01-25 <ez,k> C-CAP,U 33P-50 J CH<ez,k> C-CAP,U 22P-50 J CH<ez,k> CAP, U 0.01-25 C-CAP,U 27P-50 CH<hr/></ez,k></ez,k></ez,k>
CN601 CN901 FB101 FB601 FL301	87-099-199-010 87-099-201-010 87-008-372-080 87-008-372-080 8Z-SP1-617-010	CONN,8 FILTER FILTER	P 6216 H<1200> P 6216 H<1100> , EMI BL OIRNI , EMI BL OIRNI BT-218GNK	C823 C824 C825 C829 C830	87-A10-800-080 87-010-374-080 87-010-196-080 87-010-544-080 87-010-546-080	C-CAP,S 6800P-16 J B CM CAP, ELECT 47-10V CHIP CAPACITOR,0.1-25 CAP, ELECT 0.1-50V CAP, ELECT 0.33-50V	C755 C756 C757 C758 C761	87-012-286-080 87-012-286-080 87-012-188-080 87-012-167-080 87-010-196-080	CAP, C C-CAP, C-CAP,	J 0.01-25 J 0.01-25 ,U 47P-50 CH ,U 5P-50 CH CAPACITOR,0.1-25	C942 C943 C944 C945 C947	87-012-172-080 87-012-286-080 87-010-575-080 87-012-286-080 87-012-286-080	C-CAP,U 0.01-25 K B <ez,k> CAP, U 0.01-25<hr/> C-CAP,S 560P-50 UJ<hr/> CAP, U 0.01-25<hr/> CAP, U 0.01-25<hr/></ez,k>
J601 J602 L101 L801 LED201	87-A60-651-010 87-A60-651-010 87-005-130-080 87-A50-093-010 87-A40-589-040	COIL, C		C831 C832 C837 C838 C839	87-010-971-080 87-012-349-080 87-010-971-080 87-012-349-080 87-010-401-080	C-CAP,S 4700P-50 B J C-CAP,S 1000P-50 CH C-CAP,S 4700P-50 B J C-CAP,S 1000P-50 CH CAP, ELECT 1-50V	C762 C763 C764 C765 C766	87-012-286-080 87-010-829-080 87-012-337-080 87-012-286-080 87-012-286-080	CAP, U C-CAP, CAP, U	J 0.01-25 J 0.047-16 ,U 56P-50 CH <hr/> J 0.01-25 J 0.01-25	C949 C950 C952 C953 C954	87-A10-039-080 87-A10-913-080 87-012-286-080 87-012-286-080 87-010-400-080	C-CAP,U 470P-50 J CH <ez,k> C-CAP, 4700P-50 J CH<hr/> CAP, U 0.01-25 CAP, U 0.01-25<hr/> CAP, ELECT 0.47-50V<hr/></ez,k>
LED301 LED302 LED303 LED304 LED305	87-A40-619-040 87-A40-619-040	LED, SL LED, SL LED, SL	R-56PT-T31-W GRN R-56PT-T31-W GRN R-56PT-T31-W GRN R-56PT-T31-W GRN R-56PT-T31-W GRN	C840 C841 C842 C843 C844	87-010-401-080 87-A10-799-080 87-A10-802-080 87-A10-229-080 87-012-393-080	CAP, ELECT 1-50V C-CAP,S 5600P-16 J B CM C-CAP,S 0.047-16 J B CM C-CAP,S 0.68-10 K W5 C-CAP,S 0.22-16 R K	C768 C769 C770 C771 C772	87-012-286-080 87-010-260-080 87-010-829-080 87-010-407-080 87-010-829-080	CAP, I CAP, I CAP, I	U 0.01-25 ELECT 47-25V U 0.047-16 ELECT 33-50V U 0.047-16	C956 C958 C959 C960 C962	87-010-263-080 87-012-286-080 87-010-196-080 87-010-196-080 87-010-401-080	CAP, ELECT 100-10V <hr/> CAP, U 0.01-25 <ez,k> CHIP CAPACITOR,0.1-25 CHIP CAPACITOR,0.1-25 CAP, ELECT 1-50V</ez,k>
LED306 LED306 LED307 LED308	87-A40-606-040 87-A40-589-040 87-A40-606-040	LED, SL LED, SL LED, SL	R-56VCT31 RED<1100> R-332VC<1200> R-56VCT31 RED<1100> R-332VC<1200> R-56VCT31 RED<1100>	C845 C846 C847 C848 C849	87-012-393-080 87-010-404-080 87-010-404-080 87-012-393-080 87-012-393-080	C-CAP,S 0.22-16 R K CAP, ELECT 4.7-50V CAP, ELECT 4.7-50V C-CAP,S 0.22-16 R K C-CAP,S 0.22-16 R K	C773 C774 C775 C776 C777	87-015-785-080 87-010-263-080 87-010-404-080 87-012-286-080 87-010-400-080	CAP, I CAP, I CAP, I	CAPACITOR, 0.1FZ-25Z ELECT 100-10V ELECT 4.7-50V U 0.01-25 <ez,k> ELECT 0.47-50V</ez,k>	C964 CF801 CF801 CF802 CF802	87-012-170-080 87-008-423-010 87-008-261-010 82-785-747-010 87-008-261-010	C-CAP,U 8P-50 CH <hr/> CERAMIC FILTER, SFE10.7 <ez,k> FILTER, SFE10.7MA5-A<hr/> CF MS2 GHY R<ez,k> FILTER, SFE10.7MA5-A<hr/></ez,k></ez,k>
LED308 LED309 LED310 LED310	87-A40-606-040 87-A40-589-040	LED, SL LED, SL LED, SL	R-332VC<1200> R-56VCT31 RED<1100> R-332VC<1200> R-56VCT31 RED<1100> R-332VC<1200>	C850 C851 C852 C853 C854	87-016-081-080 87-A10-802-080 87-A10-802-080 87-016-081-080 87-016-081-080	C-CAP,S 0.1-16 RK C-CAP,S 0.047-16 J B CM C-CAP,S 0.047-16 J B CM C-CAP,S 0.1-16 RK C-CAP,S 0.1-16 RK	C778 C779 C780 C781 C782	87-010-401-080 87-010-401-080 87-010-196-080 87-010-405-080 87-010-405-080	CAP, CHIP CAP, CAP, CAP, CAP, CAP	ELECT 1-50V ELECT 1-50V CAPACITOR,0.1-25 ELECT 10-50V ELECT 10-50V	CN601 CN602 FFE801 FFE801 J801	87-099-028-010 87-099-211-010 A8-6ZA-191-130 A8-8ZA-190-030 87-A60-657-010	CONN,11P 6216 H CONN,4P V BLK 6216 <ez,k> 6ZA-1 FEENM<ez,k> 8ZA-1 FEUNM<ehr> TERMINAL,4P HSP-154V5-02<hr/></ehr></ez,k></ez,k>
\$301 \$302 \$303 \$304 \$305	87-A90-095-080 87-A90-095-080 87-A90-095-080 87-A90-095-080 87-A90-095-080	SW, TAC' SW, TAC' SW, TAC'	T EVQ11G04M T EVQ11G04M T EVQ11G04M T EVQ11G04M T EVQ11G04M	C855 C856 C857 C861 C863	87-A10-801-080 87-A10-801-080 87-016-081-080 87-010-196-080 87-010-263-080	C-CAP,S 0.022-16 J B CM C-CAP,S 0.022-16 J B CM C-CAP,S 0.1-16 RK CHIP CAPACITOR,0.1-25 CAP, ELECT 100-10V	C783 C784 C785 C786 C787	87-012-286-080 87-012-286-080 87-010-805-080 87-010-805-080 87-012-282-080	CAP, CAP, CAP,	U 0.01-25 U 0.01-25 S 1-16 S 1-16 ,U 4700P-50 KB <ez,k></ez,k>	J802 J940 L612 L613 L771	87-033-241-010 81-754-629-010 87-005-372-080 87-005-372-080 87-A50-266-010	TERMINAL, ANT 2P <ez, k=""> CONNECTOR, 2P<hr/> COIL S 1MHM<1200(EZ, K)> COIL S 1MHM<1200(EZ, K)> COIL S 1MHM<1200(EZ, K)></ez,>
S306 S307 S308 S309 S310	87-A90-095-080 87-A90-095-080 87-A90-095-080 87-A90-095-080 87-A90-095-080	SW, TAC' SW, TAC' SW, TAC'	T EVQ11G04M T EVQ11G04M T EVQ11G04M T EVQ11G04M T EVQ11G04M	C865 C866 C867 C868 C878	87-016-460-080 87-010-194-080 87-A10-201-080 87-A10-060-080 87-010-401-080	C-CAP,S 0.22-16 B CAP, CHIP 0.047 C-CAP,S0.33-16 KB C-CAP,S 0.18-16 K B CAP, ELECT 1-50V	C787 C788 C788 C789 C790	87-012-280-080 87-012-282-080 87-012-280-080 87-012-275-080 87-012-275-080	C-CAP CAP, C-CAP	U 3300P-50 <hr/> ,U 4700P-50 KB <ez,k> U 3300P-50<hr/> ,U 1200P-50 B ,U 1200P-50 B</ez,k>	L772 L772 L781 L791 L792	87-A90-052-010 87-A90-733-010 87-005-847-080 87-A50-027-010 87-A50-027-010	FLTR,CFMT-450A(TOK) FLTR,PCFAZH-450 <ez,k> COIL,2.2UH(CECS) COIL,1 POLE MPX(TOK) COIL,1 POLE MPX(TOK)</ez,k>
S311 S312 S313 S314 S315	87-A90-095-080 87-A90-095-080 87-A90-095-080 87-A90-095-080 87-A90-095-080	SW, TAC' SW, TAC' SW, TAC'	T EVQ11G04M T EVQ11G04M T EVQ11G04M T EVQ11G04M T EVQ11G04M	C879 C880 C890 C891 C892	87-010-179-080 87-010-179-080 87-012-358-080 87-010-401-080 87-010-401-080	CAP,CHIP S B1200P CAP,CHIP S B1200P C-CAP,S 0.47-10 F Z CAP, ELECT 1-50V CAP, ELECT 1-50V	C791 C793 C793 C794 C795	87-010-405-080 87-012-275-080 87-012-273-080 87-010-406-080 87-A10-504-080	C-CAP C-CAP CAP,	ELECT 10-50V ,U 1200P-50 B <ez,k> ,U 820P-50 B<hr/> ELECT 22-50 ,U 0.047-16 K B</ez,k>	L832 L941 L941 L942 L942	87-005-847-080 87-A50-020-010 87-A50-022-010 87-A50-019-010 87-A50-173-010	COIL,2.2UH(CECS) COIL,ANT LW(COI)252KHZ <ez,k> COIL,ANT SW(COI)<hr/> COIL,OSC LW (COI)<ez,k> COIL,OSC SW-N(COI)<hr/></ez,k></ez,k>
S316 S317 S318 SW201 X201	87-A90-095-080 87-A90-095-080 87-A90-095-080 87-A91-342-010 87-A70-075-080	SW, TAC'SW, TAC'SW, RTR'S	T EVQ11G04M <ez,k> T EVQ11G04M<ez,k> T EVQ11G04M<ez,k> Y EC16B24104W/O D L20 R 4.19MHZ CRHF</ez,k></ez,k></ez,k>	C893 C894 C895 C896 CN401	87-010-401-080 87-010-263-080 87-010-195-080 87-010-260-080 87-099-559-010	CAP, ELECT 1-50V CAP, ELECT 100-10V C-CAP,S 0.068-25 F CAP, ELECT 47-25V CONN,13P TUC-P13X-B1<1200>	C796 C797 C798 C799 C812	87-010-403-080 87-012-276-080 87-012-276-080 87-010-829-080 87-012-286-080	CAP, CAP, CAP,	ELECT 3.3-50V CHIP SS 1500 PBK CHIP SS 1500 PBK U 0.047-16 U 0.01-25	L943 L944 L981 L981 TC941	87-005-372-080 87-A50-159-010 87-NF4-651-110 88-NF8-625-110 87-011-173-010	COIL S 1MHM <hr/> COIL,10MH K C2B <hr/> COIL,AM PACK2N(TOM) <ez,k> COIL,AM PACK3N(TOK)<hr/> CERAMIC TRIMMER 20P<hr/></ez,k>
PRO C.B	<1200>			CN402	87-099-557-010	CONN,11P TUC-P11X-B1<1200>	C813 C814 C818	87-010-197-080 87-012-286-080 87-010-196-080	CAP, CHIP	CHIP 0.01 DM <hr/> U 0.01-25 CAPACITOR,0.1-25 <ez,k></ez,k>	TC942 TC943 X721	87-011-164-010 87-011-164-010 87-A70-061-010	CAPACITOR,TRIMMER 30P <ez,k> CAPACITOR,TRIMMER 30P<hr/> VIB,XTAL 4.500MHZ CSA-309</ez,k>
C801 C802 C803	87-010-176-080 87-010-176-080 87-010-958-080	C-CAP, S CHIP -C	S 680P-50 SL S 680P-50 SL CAP,S 0.01-25BJ	TUNER C.E	87-010-260-080	CAP, ELECT 47-25V	C819 C820	87-010-197-080 87-010-260-080	CAP,	CHIP 0.01 DM <hr/> ELECT 47-25V	X771 X851	87-030-354-010 87-A70-091-010	VIB,CF BFU 450C <hr/> VIB,XTAL 4.332MHZ <ez,k></ez,k>
C804 C805 C806	87-010-958-080 87-010-958-080 87-010-958-080	CHIP -0	CAP,S 0.01-25BJ CAP,S 0.01-25BJ CAP,S 0.01-25BJ	C702 C703 C704 C709	87-010-404-080 87-012-286-080 87-012-286-080 87-012-195-080	CAP, ELECT 4.7-50V CAP, U 0.01-25 CAP, U 0.01-25 C-CAP,U 100P-50CH	C821 C822 C823 C828	87-012-286-080 87-012-286-080 87-012-286-080 87-010-196-080	CAP,	U 0.01-25 U 0.01-25 U 0.01-25 CAPACITOR,0.1-25	VM C.B CN122	84-NF1-650-010	CONN ASSY, 3P (S-M)<1100>
C807	87-010-401-080		LECT 1-50V	5,05	J. 012 199 000	2 332 / 3 2002 3001	C829	87-010-196-080		CAPACITOR, 0.1-25	CN124	84-NF1-650-010	CONN ASSY, 3P (S-M) < 1200>

REF. NO. PART NO. KANRI DESCRIPTION REF. NO. PART NO. KANRI DESCRIPTION NO.

REF. NO.	PART NO.	Kanri No.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CONN 10P (C.B			↑ PT102 ↑ RY101	8Z-NF8-663-010		3 ZNF-8 (H) <hr/>
	87-A60-575-010 87-099-198-010		P H 52303 P 6216 V	RY101 A RY102 A T101 T102	87-A91-281-010 87-A90-976-010 87-A60-317-010 87-A60-317-010	RELAY, TERMIN	AC DC12V OSA-SS-212 <hr: AC12V SDT-S-112<ez,k> IAL, 1P MSC IAL, 1P MSC</ez,k></hr:
AC1 C.B							
	88-SPM-604-010	PT,EZ<12	200EZ>	AC2 C.B			
⚠ PT101	88-SPM-602-010 88-SPM-606-010	PT, HE<12 PT, K<12(CN101 PR101	84-NF1-650-010 87-A90-195-080		ASSY,3P(S-M)<1200> CTOR 7A 125V 49
	88-SP1-604-010 88-SP1-602-010	PT,EZ<11 PT,HE<11		PR102 PR103 PR104	87-A90-195-080 87-026-682-080 87-026-682-080	PROTEC	TOR 7A 125V 49 TOR,10A 60V491 TOR,10A 60V491
⚠ PT101	88-SP1-606-010	PT,K<11(00K>	, A	87-026-681-080		TOR,10A 60V491
SUB TRANS	C.B				87-026-681-080 87-A90-460-010	PROTEC	TOR,5A 60V 491<1200> VIRE 2.5-7P
⚠ C140	87-010-387-080 87-A10-480-090 87-A10-480-090	CAP, CER	70-25 SME 4700P-250 M E KH<1200>	AC1 SW C.E	3 <hr only=""/>		
CN102	8Z-SP1-619-010 8Z-NF8-662-010	CONN ASS	4700P-250 M E KH SY,4P NF-8(E) <ez,k></ez,k>	△ s101	87-036-173-010	SW,SL	2-2-4 SDKG

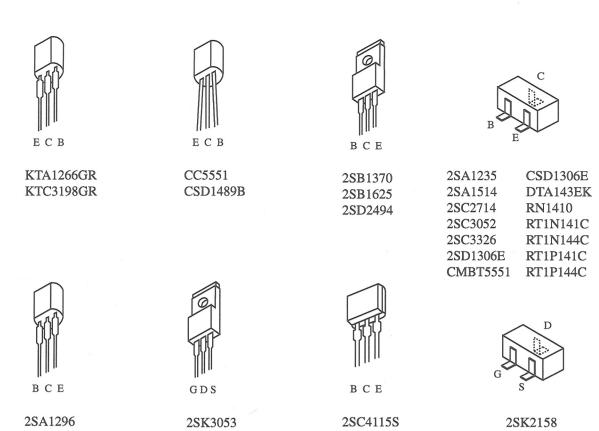
Oチップ抵抗部品コード/CHIP RESISTOR PART CODE

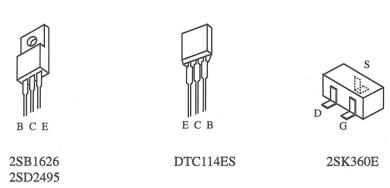


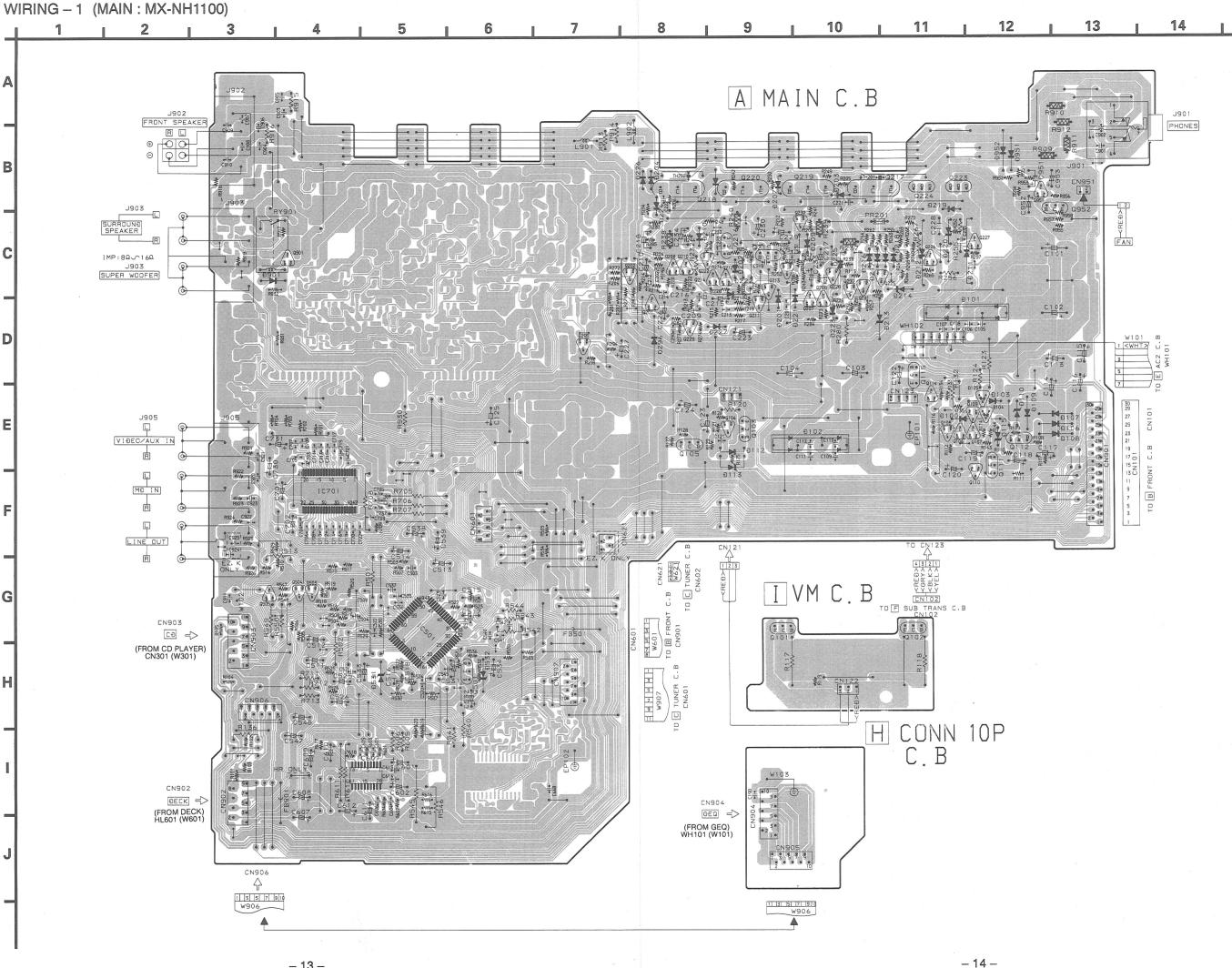
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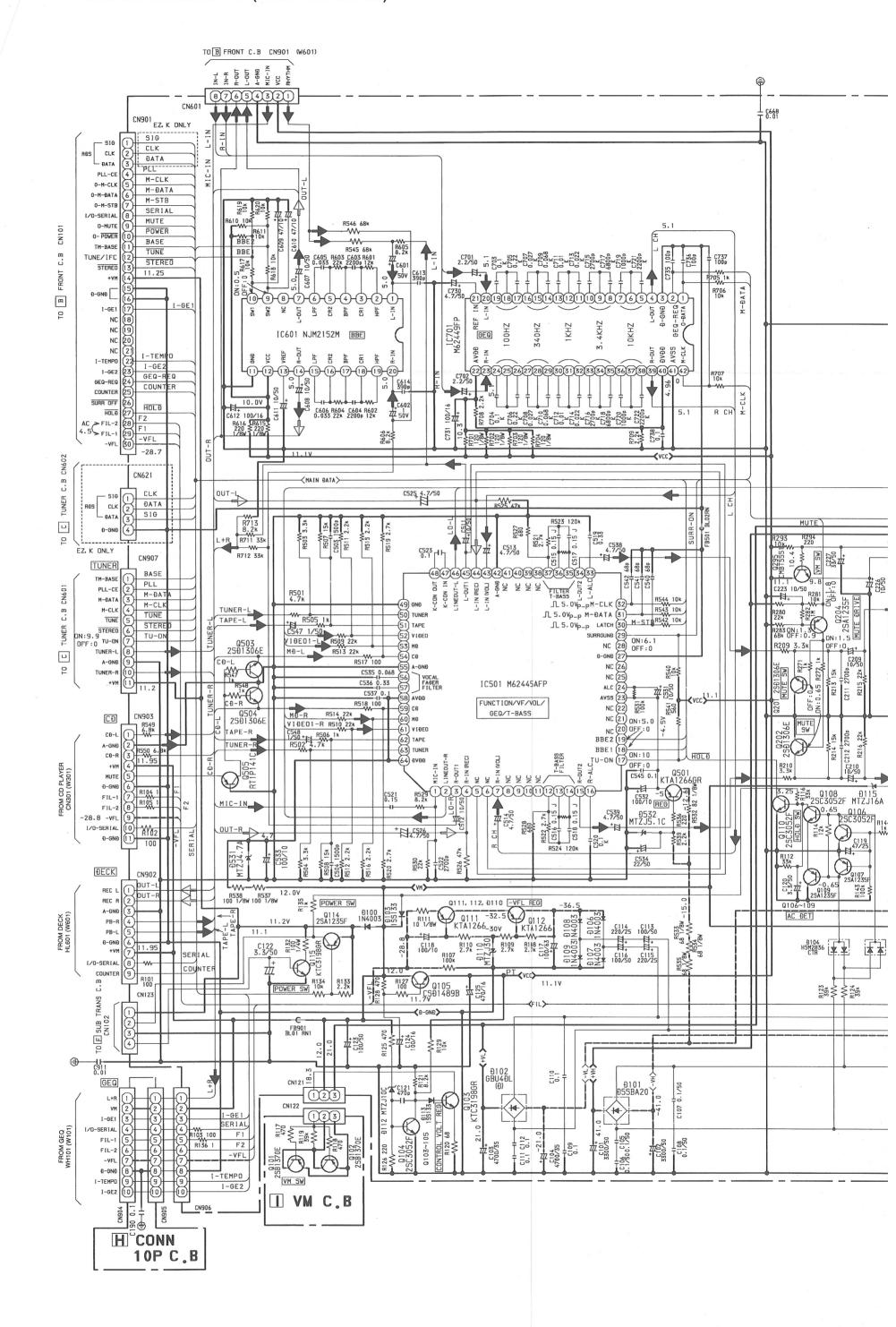
容量	種類	許容誤差	記号	寸法/Dime	ensions	(mm)		抵抗コード : A
Wattage	Type	Tolerance	Symbol	外形/Form	L	W	t	Resistor Code: A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ	L J	1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ	r	3.2	1.6	0.55	128

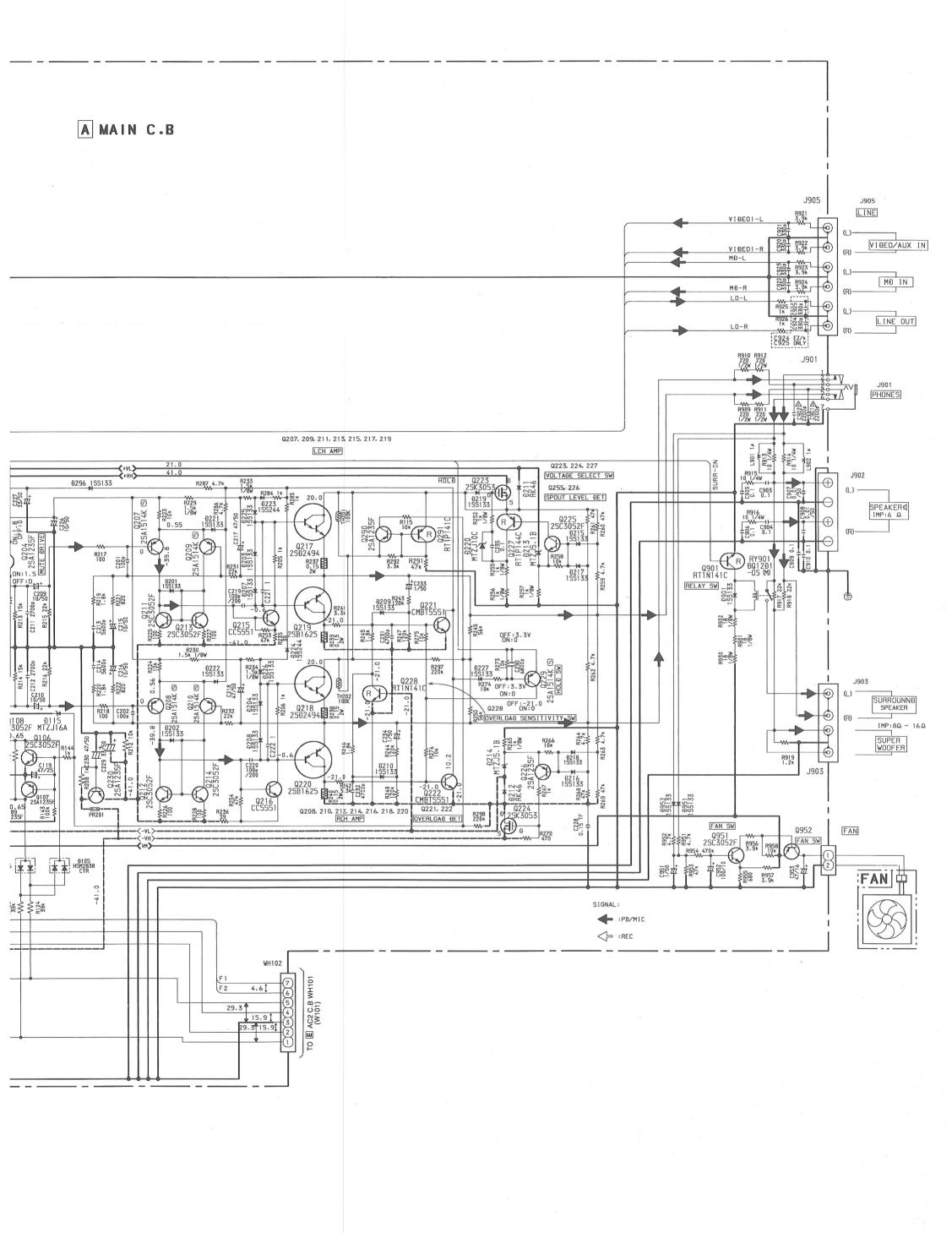
TRANSISTOR ILLUSTRATION (MX-NH1100 / NAVH1200)

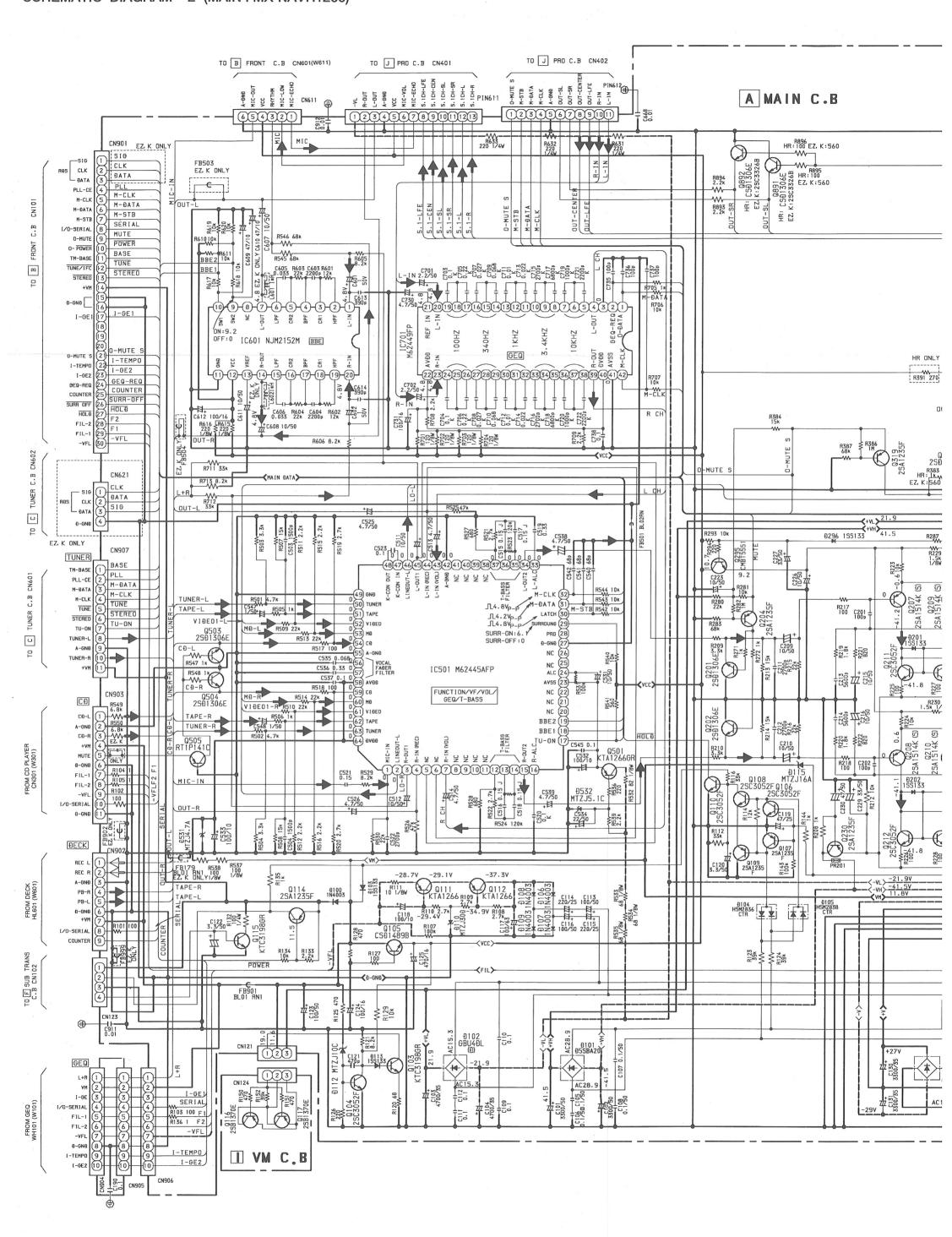


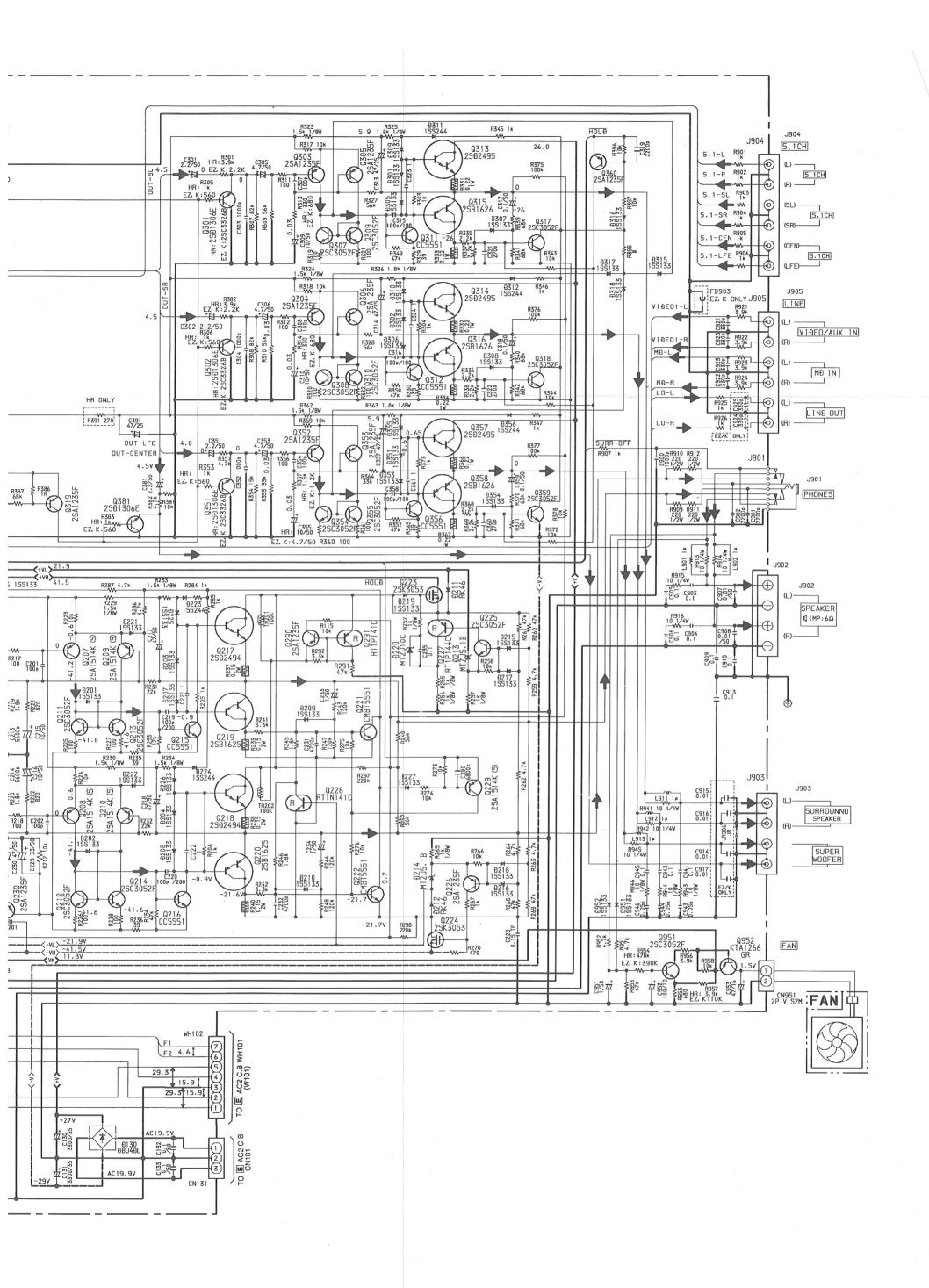


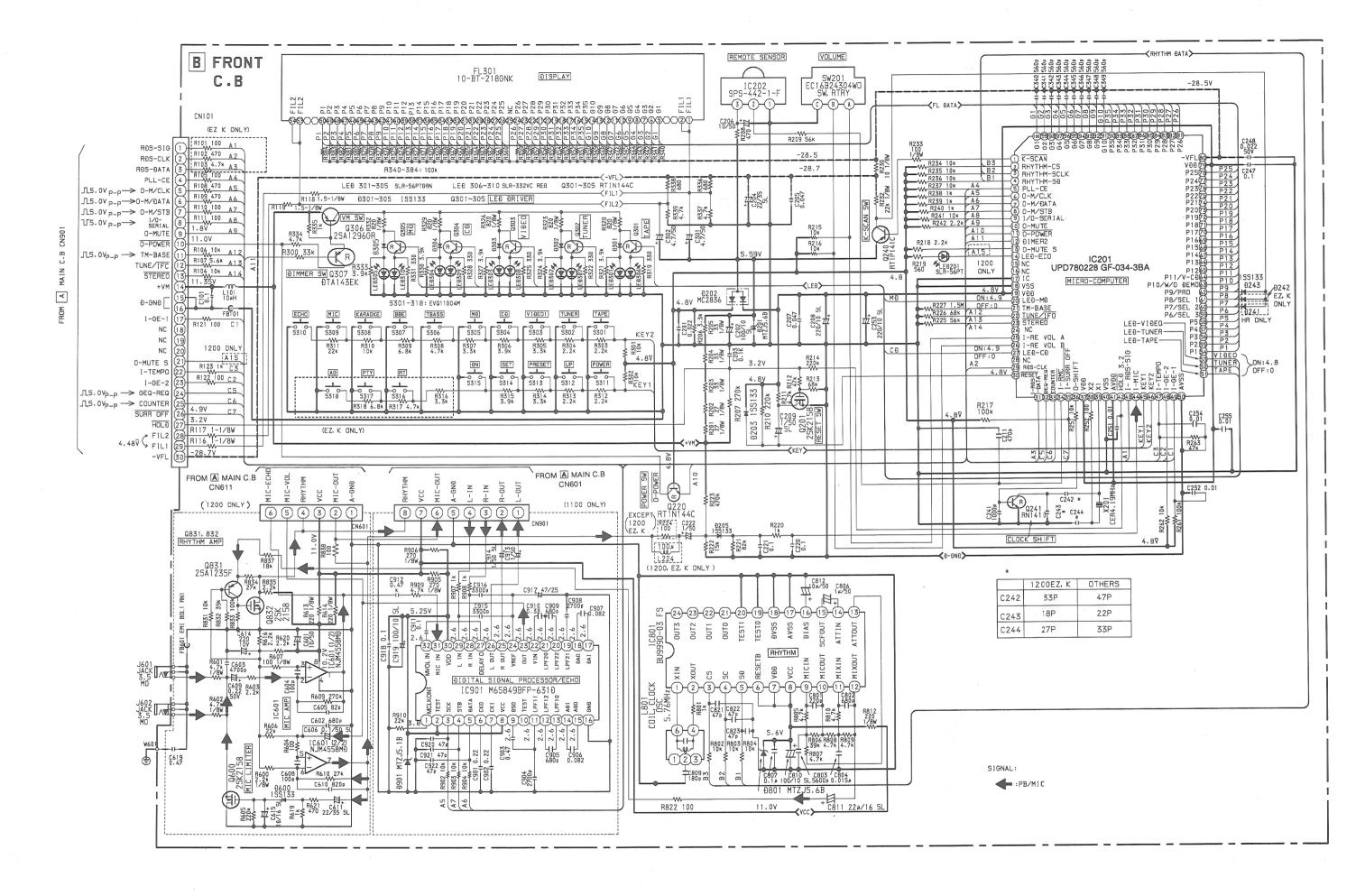


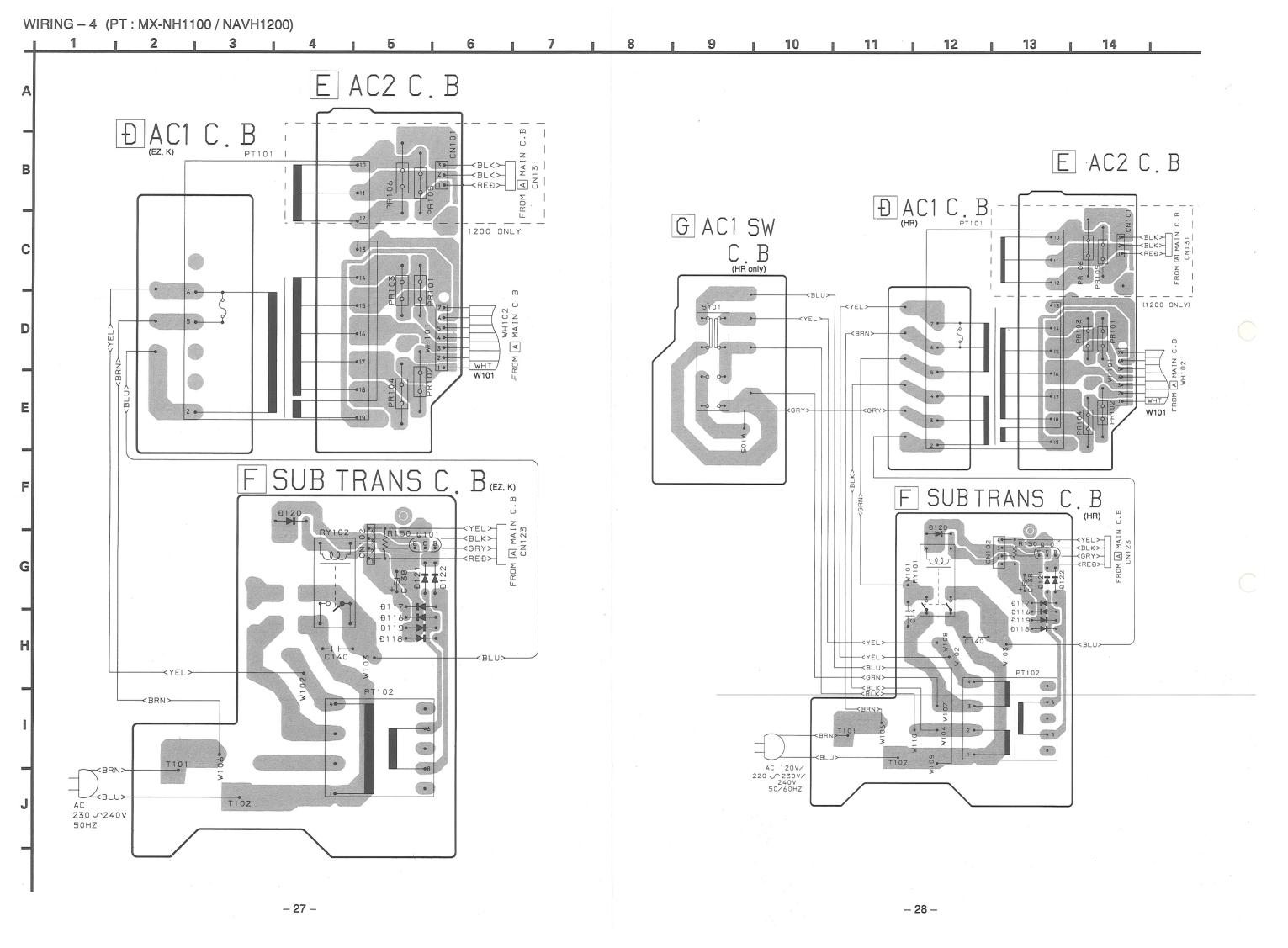


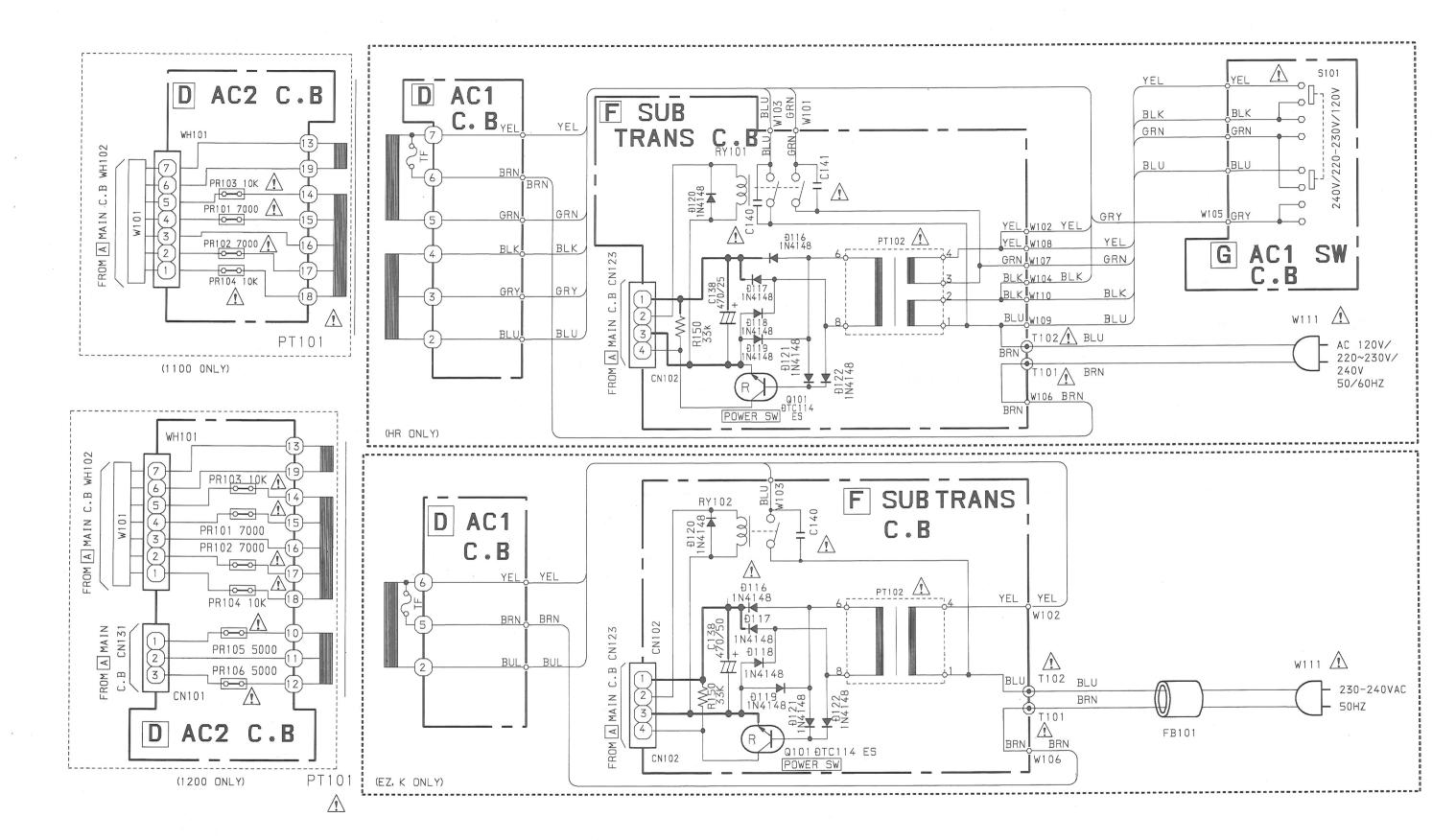


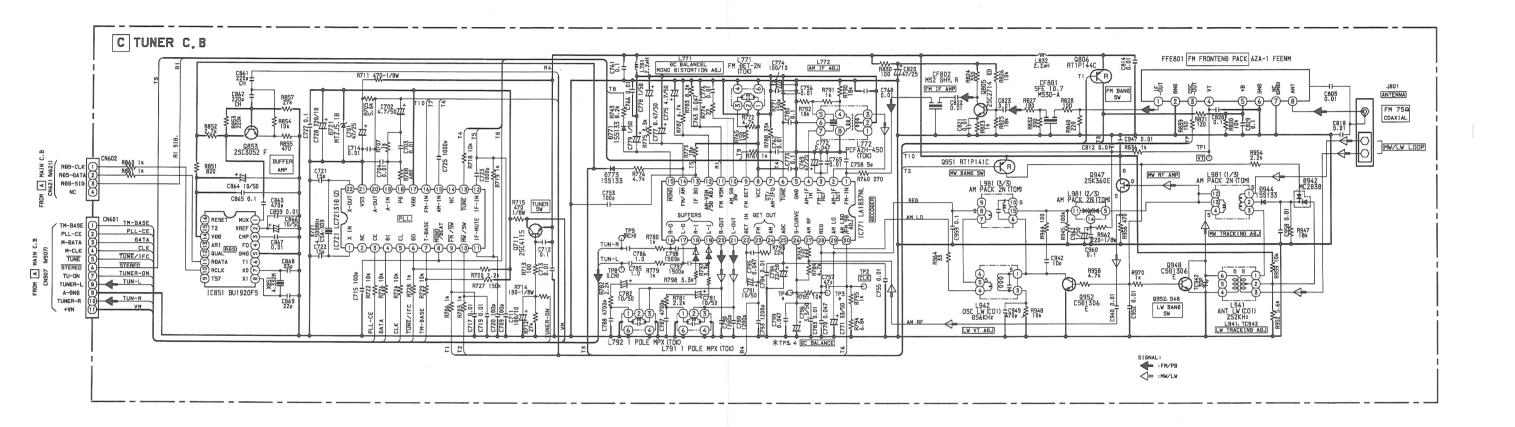


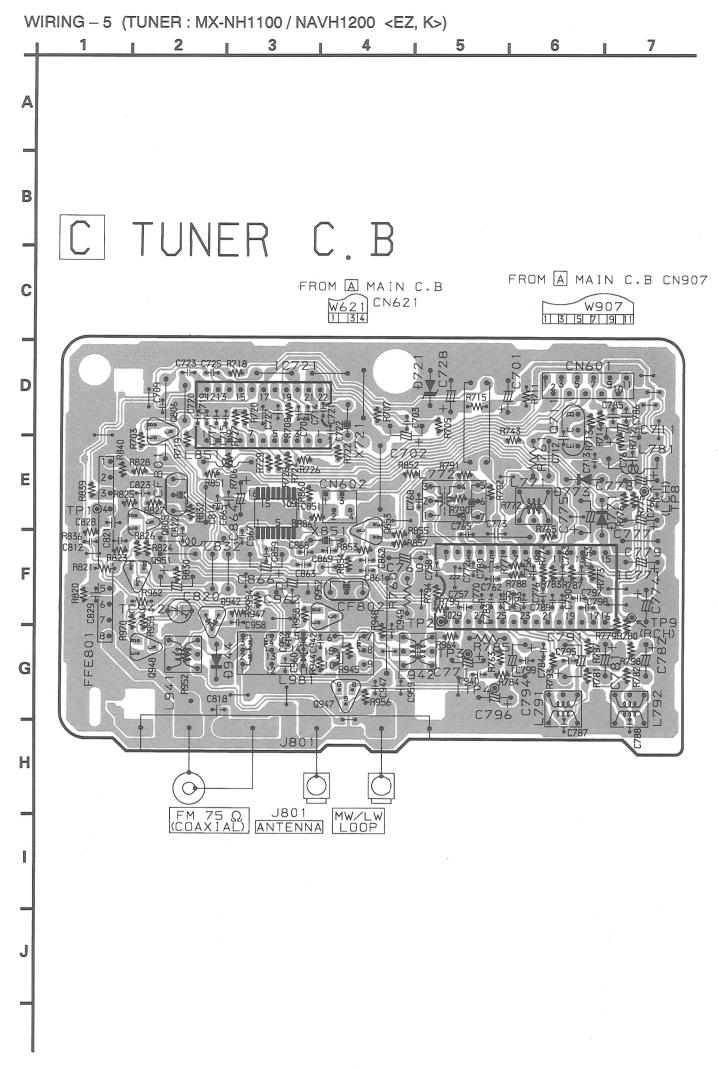


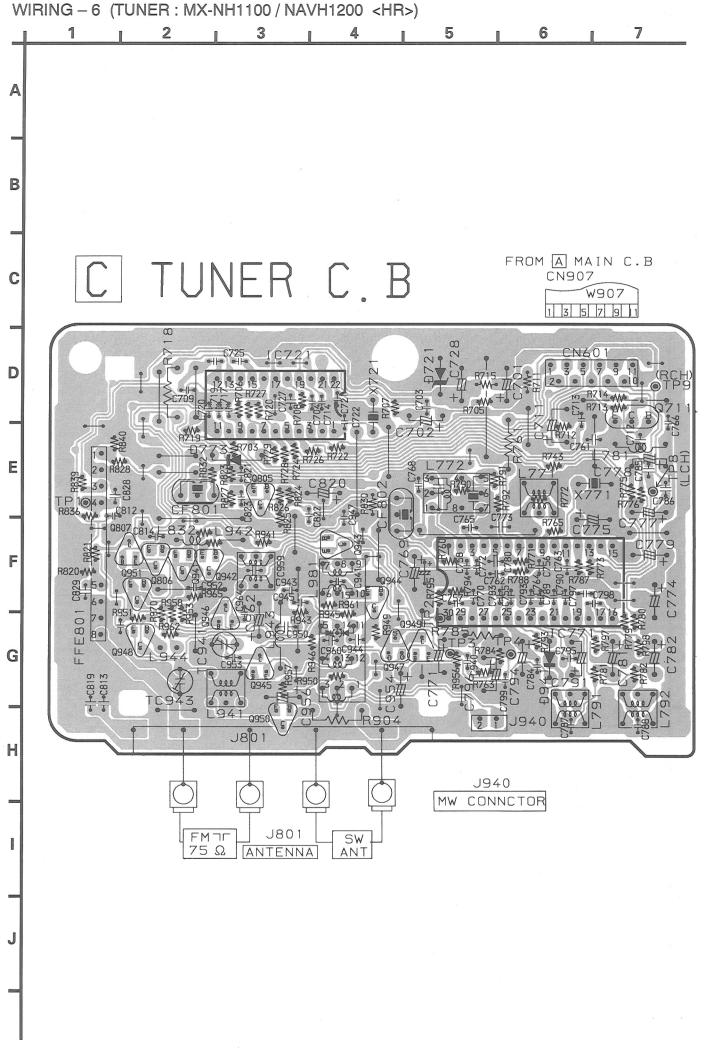


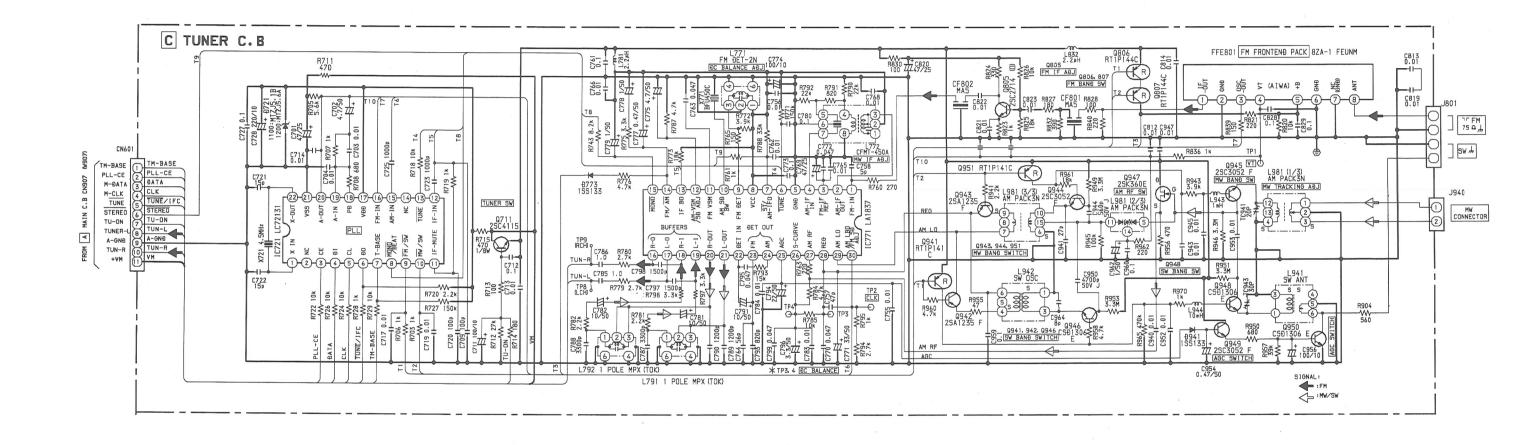


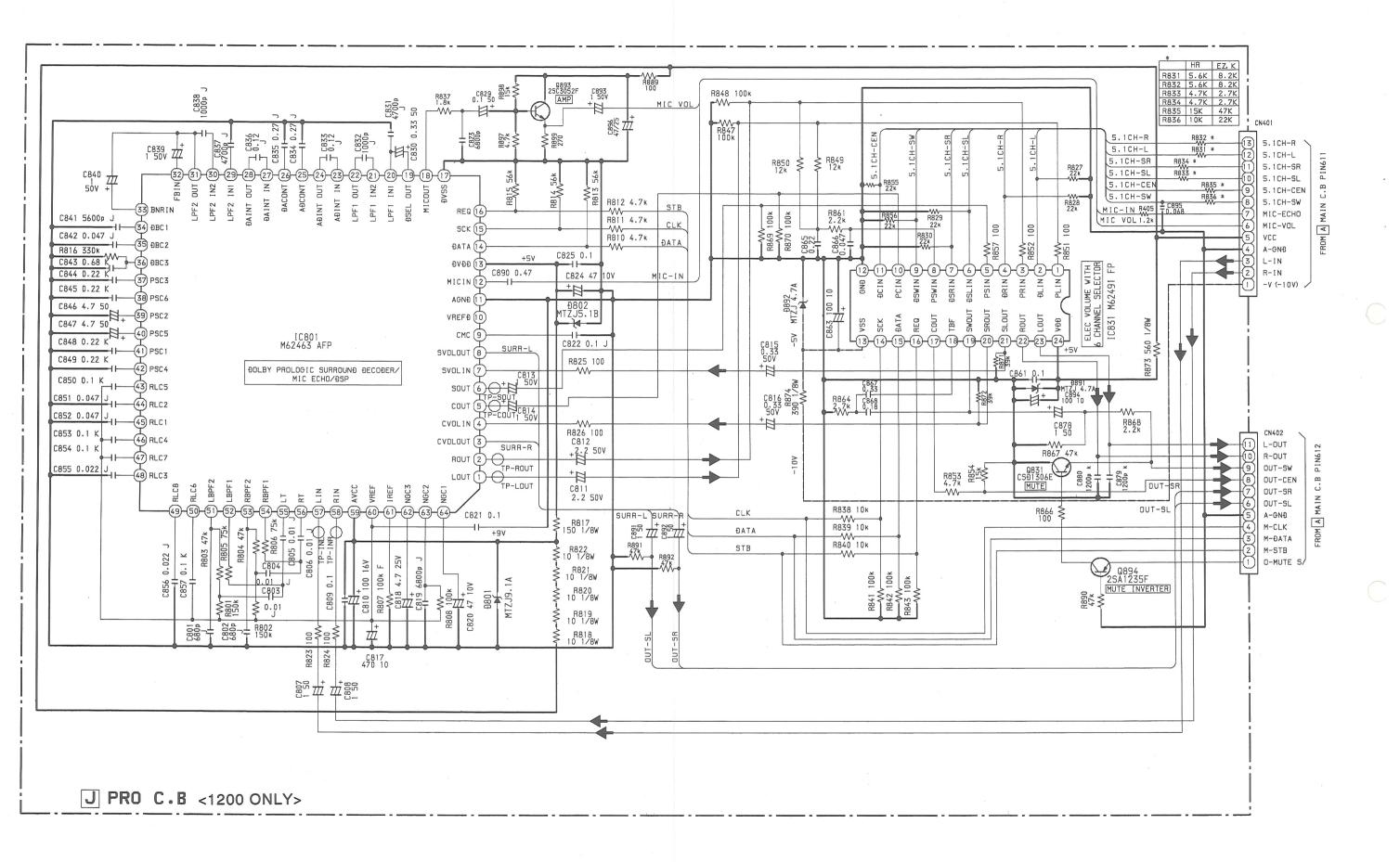






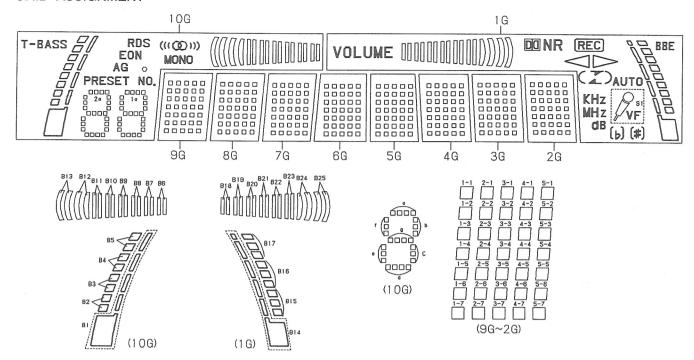






FL (10-BT-218GNK) GRID ASSIGNMENT & ANODE CONNECTION (MX-NH1100 / NAVH1200)

GRID ASSIGNMENT

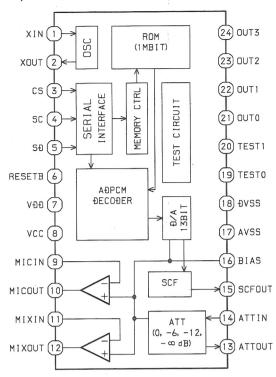


ANODE CONNECTION

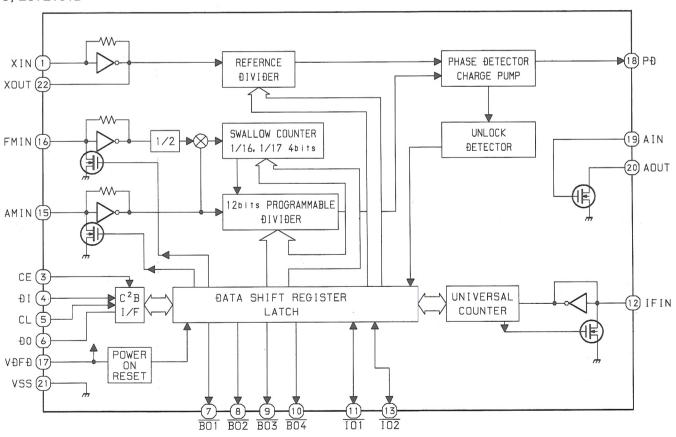
	10G	9G~2G	1 G
P1	(((@)))	1-1	VOLUME
P2	B6	2-1	B18
Р3	B7	3-1	B19
P4	B8	4-1	B20
P5	B9	5-1 1-2	B21
P6	B10	1-2	B22
P7	B11	2-2	B23
P8	B12	3-2	B24
Р9	B13	4-2	B25
P10	MONO	5-2	DONR
P11	RDS	1-3	(REC)
P12	EON	2-3	
P13	AG	3-3	
P14	0	4-3	(
P15	PRESET No.	5-3	
P16	2 a	1-4	
P17	2 f	2-4	KHz
P18	2 b	3-4	MHz
P19	. 2g	4-4	dB
P20	2 e	5-4	((b))
P21	. 2c	1-5	Ь
P22	2 d	2-5	S1
P23	1 a	3-5	AUTO
P24	1 f	4-5	#
P25	1 b	5-5	((#))
P26	1 g	1-6	B14
P27·	1 e	2-6	B17
P28	1 c	3-6	B16
P29	1 d	4-6	B15
P30	T-BASS	5-6	BBE
P31	B1	1-7	_
P32	B2	2-7	_
P33	B3	3-7	_
P34	B4	4-7	_
P35	B5	5-7	

IC BLOCK DIAGRAM (MX-NH1100 / NAVH1200)

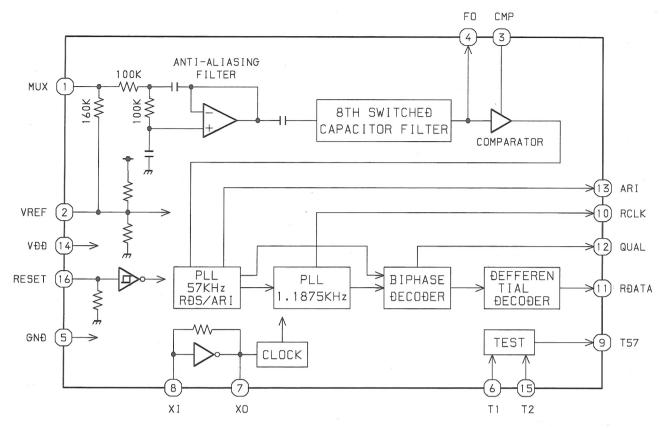
IC, BU9990-03FS



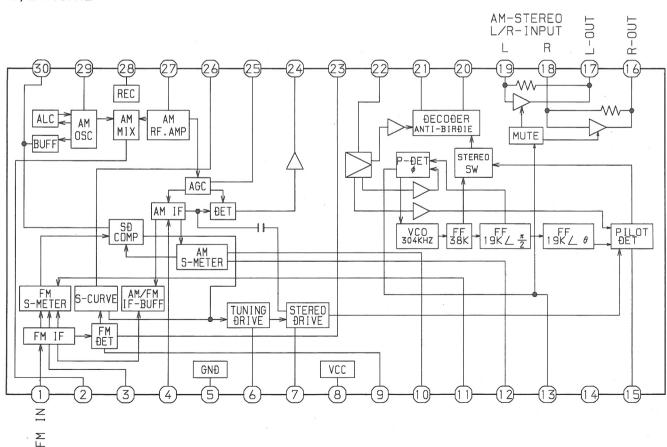
IC, LC72131D

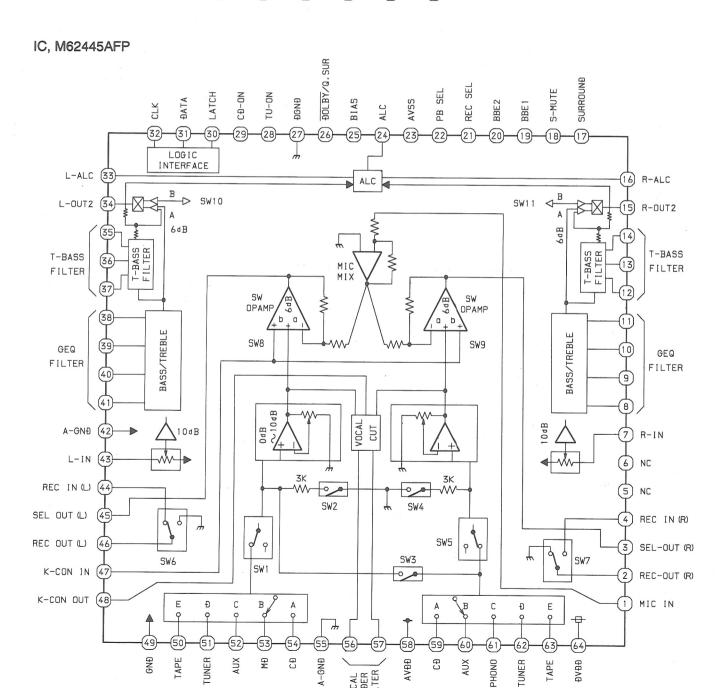


IC, BU1920FS



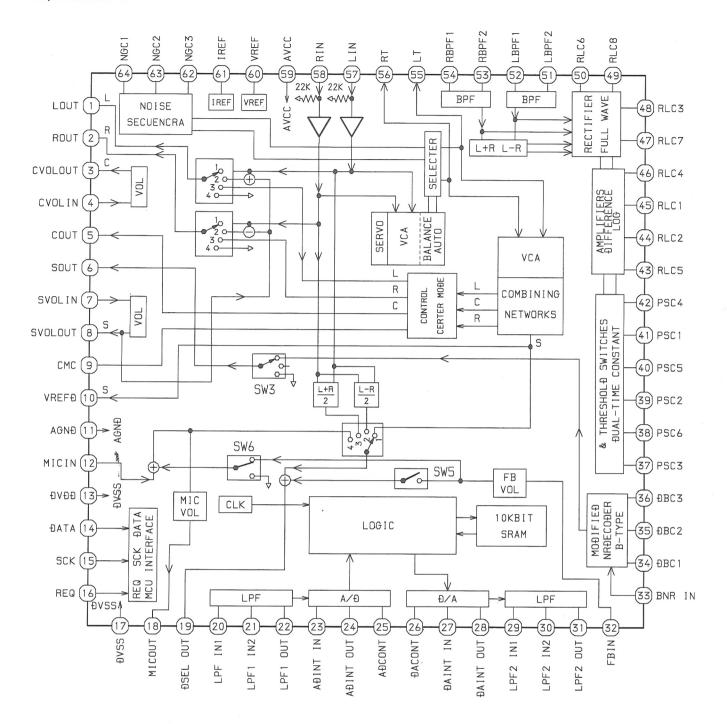
IC, LA1837NL



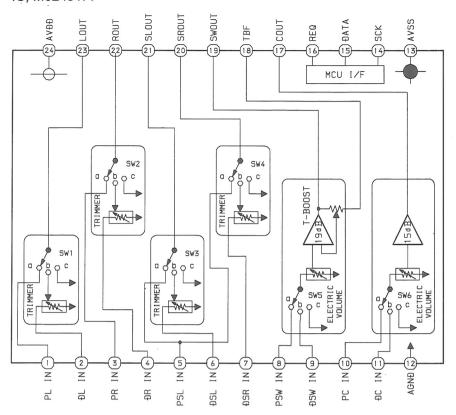


BOOST LEVEL CONTROL

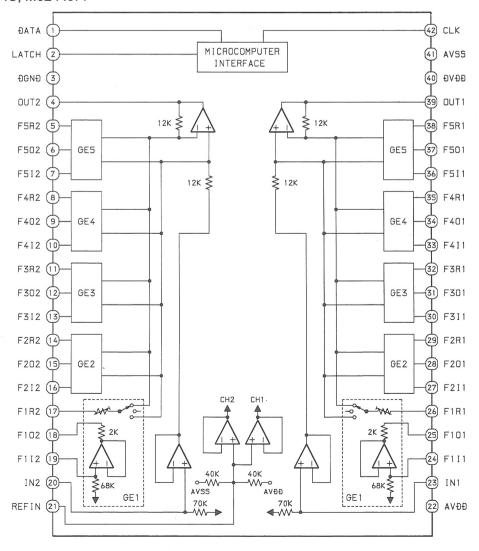
(8)



IC, M62491FP



IC, M62449FP



IC DESCRIPTION (MX-NH1100/NAVH1200)

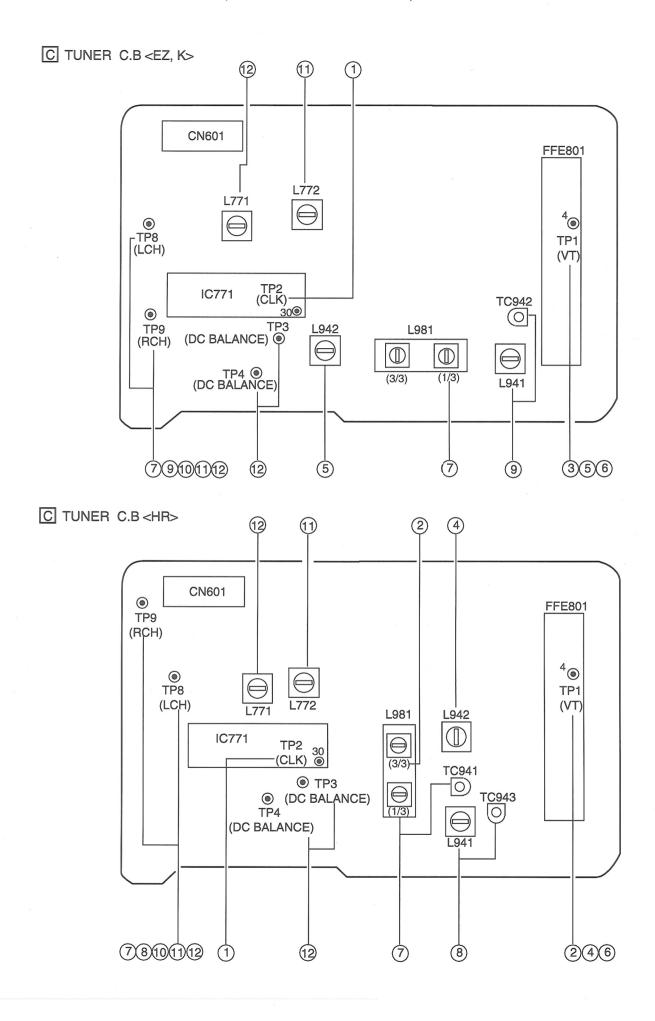
IC, UPD780228GF-034-3BA

Pin No.	Pin Name	I/O	Description
1	K-SCAN	0	Output scan for segment input (Active "H").
2	RHYTHM-CS	0	Chip select output to IC, BU9990-03.
3	RHYTHM-SCLK	0	Clock output to IC, BU9990-03.
4	RHYTHM-SD	0	Data output to IC, BU9990-03.
5	PLL CE	0	PLL IC chip enable output.
6	O-M/CLK	0 .	Main clock output.
7	O-M/DATA	0	Main data output.
8	O-M/STB	0	Main strobe output.
9	I/O-SERIAL	I/O	Communication port for GEQ, CD and DECK.
10	O-MUTE	0	System mute (ON when "H").
11	O-POWER	0	System power supply (ON when "L").
12	DIMER 2	0	Dimmer control ("L" when 2).
13	O-MUTE S	0	Sound L, R, Center, SW Mute.
14	LED-ECO	0	ECO LED output.
15	NC	_	Not connected.
16	NC	_	Not connected.
17	IC	_	Connect to GND.
18	VSS	_	GND.
19	VDD	_	Power supply terminal.
20	LED-MD	0	MD LED output.
21	TM BASE	I	Time base input.
22	TUNE/IFO	I	Tuning detection input.
23	STEREO	I	Stereo detection input.
24	NC	_	Not connected.
25	I-RE VOL A		
26	I-RE VOL B	I	Rotary Encoder Input A / B.
27	LED CD	0	CD LED output.
28	NC	_	Not connected.
29	I-RDS-CLK	I	RDS clock input.
30	RESET	I	Reset input.
31	I-RDS-DATA	I	RDS data input.
32	GEQ-REQ	0	Latch output to IC, M62449FP.
33	COUNTER	I	Tape counter input.
34	I-RMC	I	Remote controller input (Active "L").
35	I-SURR-OFF	I	Stop surround function when using head phone.
36	O-SHIFT	0	Output for oscillated frequency shift.
37	VDD	_	Power supply terminal.
38	X2		
		_	4.19MHz oscillator circuit.
		_	GND
38 39 40 41	X1 VSS AVDD	-	4.19MHz oscillator circuit. GND Power supply terminal.
42	HOLD	I	Power failure / over current detected input.

Pin No.	Pin Name	I/O	Description
43	I-RDS SIG	I	RDS signal input.
44	I-MIC	I	MIC input level detection.
45	I-KEY1	I	KEY1 input.
46	I-KEY2	I	KEY2 input.
47	TEMPO	I	TEMPO input (100Hz, 3.3kHz).
48	GE-2	I	DEMO, TIMER, CLOCK, SPICE A, AUTO SPICE / FILL IN input.
49	GE-1	I	JOG, SPICE B SW input.
50	AVSS	_	GND.
51	LED-TAPE	0	Tape LED output.
52	LED-TUNER	0	Tuner LED output.
53	LED-VIDEO	0	Video LED output.
54~58	P1~P5	0	FL segment output.
59	Р6	I/O	FL segment output.
60	P7 / SEL2	I/O	FL segment output / SEL2 input <hr only=""/> .
61	P8 / SEL1	I/O	FL segment output / SEL1 input <ez,k only="">.</ez,k>
62	P9 / PRO	I/O	FL segment output / PROLOGIC input.
63	P10 / w/o DEMO	I/O	FL segment output / Without DEMO input.
64	P11/V-CD	I/O	FL segment output / V-CD input.
65~78	P12~P25	0	FL segment output.
79	VDD	-	Power supply terminal.
80	-VFL	-	Power FL display negative supply terminal.
81~90	P26~P35	0	FL segment output.
91~100	G10~G1	0	FL grid output.

IC, M65849BFP631D

Pin No.	Pin Name	I/O	Description
1	MCLKONT	I	Controls buils-in clock generation circuit with external R.
2	TEST1	I	Test mode change "H" Normal / "L" Test.
3	CLOCK	I	Clock input via serial bus.
4.	STB	I	Strobe input via serial bus.
5	DATA	I	Data input via serial bus.
6	СКО	0	Clock output.
7	CKI	I	Clock input.
8	Vcc	-	Power supply.
9	DELAY SOURCE OUT	0	(L+R) or (L-R) or MIC signal output.
10	TEST OUT	0	Memory / Mute / Sampling data output (Test mode) (Not connected).
11	LPF1 IN 1	I	Low Pass Filter 1 input 1.
12	LPF1 IN 2	I	Low Pass Filter 1 input 2.
13	LPF1 OUT	0	Low Pass Filter 1 output.
14	AD INT IN	I	A/D integrator input.
15	AD INT OUT	I	A/D integrator output.
16	GND	-	GND.
17	DAINT IN	I	D/A integrator input.
18	DAINT OUT	0	D/A integrator output.
19	LPF2 IN 1	I	Low Pass Filter 2 input 1.
20	LPF2 IN 2	I	Low Pass Filter 2 input 2.
21	LPF2 OUT	0	Low Pass Filter 2 output.
22	FVOL IN	I	Feedback volume input.
23	MIC OUT	0	Microphone output.
24	REF	-	Reference.
25	Rch OUT	0	Rch mixing output.
26	Lch OUT	О	Lch mixing output.
27	DELAY OUT	0	Delay signal output.
28	Rch IN	I	Rch mixing input.
29	Lch IN	I	Lch mixing input.
30	VDD	_	VDD.
31	MIC IN	I	Microphone input.
32	MVOL IN	I	Mix volume input.



< TUNER SECTION >

1. Clock frequency Check

Settings: • Test point: TP2

Method: Set to AM 1602kHz and check that the test point is $2052kHz \pm 45Hz$.

2. MW VT Adjustment <HR>

Settings: • Test point: TP1 (VT)

• Adjustment location: L981 (3/3)

Method: Set to MW 1710kHz and adjust L981 (3/3) so that the test point becomes $7.5V \pm 0.05V$. Then check that the test point is more than 0.3V (530kHz).

3. MW VT Check <EZ,K>

Settings: • Test point: TP1 (VT)

Method: Set to MW 1602kHz and check that the test point is less than 8.0V and more than 0.6V (531kHz).

4. SW VT Adjustment <HR>

Settings: • Test point: TP1 (VT)

Adjustment location: L942

Method: Set to SW 17.9MHz and adjust L942 so that the test point becomes $6.0V \pm 0.05V$. Then check that the test point is more than 0.3V (5.9MHz).

5. LW VT Adjustment <EZ,K>

Settings: • Test point: TP1 (VT)

Adjustment location: L942

Method: Set to LW 144kHz and adjust L942 so that the test point is $1.3V\pm0.05V$. Then check that the test point is less then 8.0V (290kHz).

6. FM VT Check

Settings: • Test point: TP1 (VT)

Method: Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.0MHz).

7a. MW Tracking Adjustment <HR>

Settings: • Test point: TP8(Lch), TP9(Rch)
• Adjustment location:

L981 (1/3) 603kHz TC941 1404kHz

Method: Set up TC941 to center before adjustment, the level at 603kHz is adjusted to maximum by L981 (1/3). Then the level at 1404kHz is adjusted to maximum by TC941.

7b. MW Tracking Adjustment <EZ,K>

Settings: • Test point: TP8(Lch), TP8(Rch)

• Adjustment location:

L981(1/3)999kHz

Method: Set to AM 999kHz and adjust L981(1/3)to MAX.

8. SW Tracking Adjustment <HR>

Settings: • Test point: TP8(Lch), TP9(Rch)

• Adjustment location :

Method: Set up TC943 to center before adjustment. The level at 5.9MHz is adjusted to maximum by L941. Then the level at 17.9MHz is adjusted to maximum by TC943.

9. LW Tracking Adjustment <EZ,K>

Settings: • Test point: TP8(Lch), TP9(Rch)

• Adjustment location :

Method: Set up TC942 to center before adjustment. The level at 144kHz is adjusted to maximum by L941.

Then the level at 290kHz is adjusted to maximum by TC942.

10. FM Tracking Check

Settings: • Test point: TP8(Lch), TP9(Rch)

Method: Set to FM 98.0MHz and check that the test point is less than 9dB (HR), less than 13dB (EZ,K).

11. AM(MW) IF Adjustment

Settings: • Test point: TP8(Lch), TP9(Rch)

• Adjustment location :

L772450kHz

12. DC Balance / Mono Distortion Adjustment

Settings: • Test point: TP3, TP4 (DC Balance)

: TP8(Lch), TP9(Rch) (Distortion)

• Adjustment location: L771

• Input level : 54dB

Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes $0V \pm 0.04V$. Next, check that the distortion is less than 1.3%.

PRACTICAL SERVICE FIGURE (MX-NH1100 / NAVH1200)

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity: HR: Less than 10/9/9dB

(THD 3%) EZ,K: Less than 14 / 13 / 13dB

[at 87.5 / 98.0 / 108.0MHz]

S/N 50dB Quieting sensitivity:

HR: Less than 35dB EZ,K: Less than 38dB

[at 98.0MHz]

Signal to noise ratio: Mono: More than 72dB

Stereo:

HR: More than 66dB EZ,K: More than 64dB

[at 98.0MHz]

Distortion: Mono: Less than 1.2%

Stereo: Less than 2.0% [at 98.0MHz]

Stereo separation: HR: More than 12dB [at 98.0MHz]

EZ,K: More than 30dB [at 98.0MHz]

Intermediate frequency: 10.7MHz

<MW SECTION>

Sensitivity: Less than 62dB [at 603kHz]

Less than 58dB [at 999kHz]

Less than 58dB [at 1404kHz]

Signal to noise ratio: More than 36dB [at 999kHz]

Distortion: Less than 1.5% [at 999kHz]

Intermediate frequency: 450kHz

<LW SECTION> (EZ,K)

Sensitivity:

Less than 70dB [at 144kHz]

Less than 68dB at 198kHz]

Less than 66dB [at 290kHz]

Intermediate frequency: 450kHz

<SW SECTION> (HR)

Sensitivity:

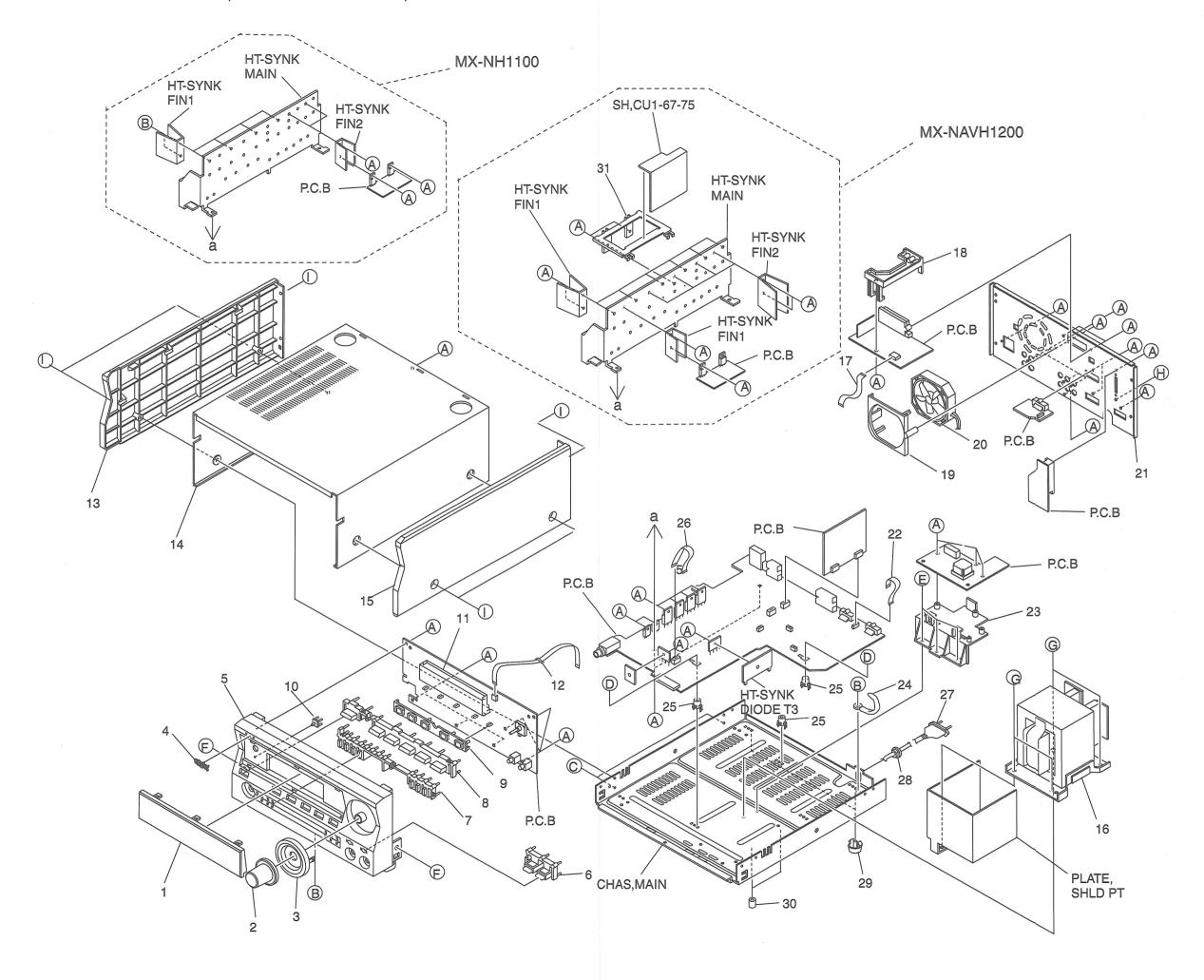
Less than 51dB [at 5.9MHz] Less than 45dB [at 12.0 MHz]

Less than 44dB [at 17.9MHz]

Overload Signal Distortion:

Less than 10% [at 12.0MHz]

Intermediate frequency: 450kHz



MECHANICAL PARTS LIST 1 / 1 (MX-NH1100 / NAVH1200)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	F	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1 1 1	8Z-SPM-002-010 8Z-SP1-004-010 8Z-SP1-028-010 8Z-SPM-009-010 8Z-SP1-011-010	WINDOW, WINDOW, WINDOW,	DISPLAY<1200HR> DISPLAY<1100HR> DISPLAY EZ<1100K,1100EZ> DISPLAY EZ<1200K,1200EZ> RY VOL		20 21 21	8Z-SP1-207-010 87-A91-232-010 8Z-SPM-003-010 8Z-SP1-022-010 8Z-SP1-003-010	FAN PAN PAN	ER, FAN ,F614R-12MC-22-350MM EL,REAR EZ-1200EZ> EL,REAR EZSNM<1100EZ> EL,REAR HR<1100HR>
4 5 5	8Z-SP1-012-010 87-B00-002-010 8Z-SP1-001-010 8Z-SPM-001-010 8Z-SP1-021-010	BADGE, A CABI, FR CABI, FR	L IWA 30 ABS SIL <1100HR> EZ<1200K,1200EZ> EZ<1100K,1100EZ>		21 21 22	8Z-SPM-008-010 8Z-SPM-006-110 8Z-SP1-026-010 88-910-071-110 8Z-SP1-209-010	PAN PAN FF-0	EL,REAR HR<1200HR> EL,REAR K<1200K> EL,REAR KSNM<1100K> CABLE, 10P 1.25 70MM R,PWB ECO
6 7 7	8Z-SPM-005-010 8Z-SP1-007-010 8Z-SP1-008-010 8Z-SP1-016-110 8Z-SP1-010-010	KEY,BBE KEY,KAR	AOKE <hr/> <k,ez></k,ez>	<u>/^</u>	25 26 27	87-064-185-010 8Z-SP1-208-010 8Z-SP1-627-010 87-A80-143-010 87-050-079-010	HLDI F-CA AC-0	R,WIRE R,PWB 13.5 ABLE,7P 2.5 280MM CORD ASSY,E<1200K> CORD ASSY,E <except 1200k=""></except>
10 11 12	8Z-SP1-202-010 8Z-SP1-015-010 88-SX1-203-210 88-908-281-110 88-906-301-110	GUIDE, L REFLECT GUIDE, F FF-CABL FF-CABL	OR, ECO		29 30 31	87-085-185-010 87-085-213-010 8Z-NB8-240-010 88-SPM-208-010 87-067-703-010	FOOT COVE	HING, AC CORD (E) F,H12.5 SR, PL R,PWB PRO<1200> PING SCREW, BVT2+3-10
14 15 <u>^</u> 16	8Z-SP1-017-010 8Z-SP1-002-010 8Z-SP1-018-010 88-SPM-604-010 88-SPM-602-010	PANEL,S CABI,ST: PANEL,S PT,EZ<1: PT,HE<1:	EEL IDE R 200K,1200EZ>		C D E	87-067-688-010 87-721-095-410 87-B10-190-010 87-067-579-010 87-591-094-410	QT2+ BVT2 BVT2	F+3-6 +3-8GLD W/O SLOT 2+3-22 W/O SLOT +3-8 W/O SLOT PING SCREW, QIT+3-6
16 16 17	88-SP1-604-010 88-SP1-602-010 88-SP1-606-010 88-911-121-110 88-AR1-203-010	PT,EZ<1: PT,HE<1: PT,K<11: FF-CABL! HLDR,TU	LOOHR>		H	87-078-019-010 81-653-215-010 87-067-641-010	SPEC	CREW,IT+4-6 CIAL SCREW, VT2.6-8 <hr/> 2+3-8(W/O SLOT)BL

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
В	Black	С	Cream	D	Orange
G	Green	Н	Gray	L	Blue
LT	Transparent Blue	N	Gold	Р	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Υ	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

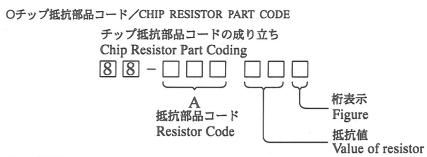
MODEL NO.

DX-NH1100

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	Kanri No.	DESCRIPTION	REF. NO.	PART NO.	Kanri No.	DESCRIPTION
IC	8Z-SX1-607-010	C-IC,UP	D78046HGF-024-3B9	C254 C255 C256 CN1 CN2	87-010-178-080 87-010-178-080 87-010-178-080 87-099-669-010 87-099-559-010	CHIP CHIP CONN,	CAP 1000P CAP 1000P CAP 1000P 8P TUC-P8X-B1 13P TUC-P13X-B1
TRANSISTO	87-026-263-080 87-A30-076-080			FL201 L1 L2 L3 L5	8Z-SX1-608-010 87-005-152-080 87-005-152-080 87-005-152-080 87-005-152-080	COIL, COIL,	10UH 10UH
DIODE	87-020-465-080 87-070-136-080		SS133 (110MA) TZJ5.1B	LED203 LED204 LED205 LED206 LED207	87-A40-263-080 87-A40-263-080 87-A40-317-080 87-A40-317-080 87-A40-317-080	LED, S LED, S LED, S	SLH-56PCT31 GRN SLH-56PCT31 GRN SLR-342VCT31 RED SLR-342VCT31 RED SLR-342VCT31 RED
C301 C304 C305 C310 C311	87-010-322-080 87-010-196-080 87-010-197-080 87-016-462-080 87-016-462-080	CHIP CA		\$201 \$202 \$203 \$204 \$205	87-A90-095-080 87-A90-095-080 87-A90-095-080 87-A90-095-080 87-A90-095-080	SW, TA SW, TA SW, TA	ACT EVQ11G04M ACT EVQ11G04M ACT EVQ11G04M ACT EVQ11G04M ACT EVQ11G04M
C312 C313 C314 CN301 CN302	87-016-462-080 87-010-184-080 87-010-402-040 87-009-241-010 87-099-194-010	C-CAP,S CHIP CA	1-16 F PACITOR 3300P(K) .2-50 SME OR, 11P	S206 S207 S208 X1	87-A90-095-080 87-A90-095-080 87-A90-095-080 87-A70-075-080	SW, TA	ACT EVQ11G04M ACT EVQ11G04M ACT EVQ11G04M ACER 4.19MHZ CRHF
CN303 CN304 CN305 FB301 FB302	87-099-015-010 87-099-667-010 87-099-570-010 87-008-372-080 87-008-372-080	CONN, 13 FILTER,	P 6216V TUC-P8P-B1 P TUC-P13P-B1 EMI BL OIRNI EMI BL OIRNI	S101 S102	87-A90-095-080 87-A90-095-080		ACT EVQ11G04M ACT EVQ11G04M
FB303 FB304 FB305 FB306 FB307	87-008-372-080 87-008-372-080 87-008-372-080 87-008-372-080 87-008-372-080	FILTER, FILTER, FILTER,	EMI BL OIRNI EMI BL OIRNI EMI BL OIRNI EMI BL OIRNI EMI BL OIRNI				
L301 L302 W301 W302 W303	87-005-152-080 87-005-165-080 88-SX1-610-010 88-906-481-110 88-913-121-110	COIL,10 COIL 1U CORD,FG FF-CABL FF-CABL	H (H,E) 11P E,6P 1.25 480MM				
FRONT C.B							
C1 C2 C4 C5 C6	87-010-264-040 87-010-072-040 87-010-246-040 87-010-190-080 87-010-196-080	CAP,E 2 CAP,E 4 S CHIP	00-10 5L .2-50 5L 7-35 SME F 0.01 PACITOR,0.1-25				
C7 C8 C9 C10 C11	87-010-197-080 87-010-314-080 87-010-316-080 87-010-315-080 87-010-196-080	C-CAP,S C-CAP,S C-CAP,S	IP 0.01 DM 22P-50V 33P-50 CH 27P-50 CH PACITOR,0.1-25				
C12 C14 C15 C201 C202	87-010-197-080 87-010-405-040 87-010-405-040 87-018-134-080 87-010-197-080	CAP,E 1 CAP,E 1 CAPACIT					
C203 C204 C251 C252 C253	87-010-197-080 87-018-134-080 87-010-178-080 87-010-178-080 87-010-178-080		P 1000P				



チップ抵抗 Chip resistor

Chip resistor								
容量	種類	許容誤差	記号	寸法/Dim		抵抗コード : A		
Wattage	Type	Tolerance	Symbol	外形/Form	L	W	t	Resistor Code: A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ]	3.2	1.6	0.55	128

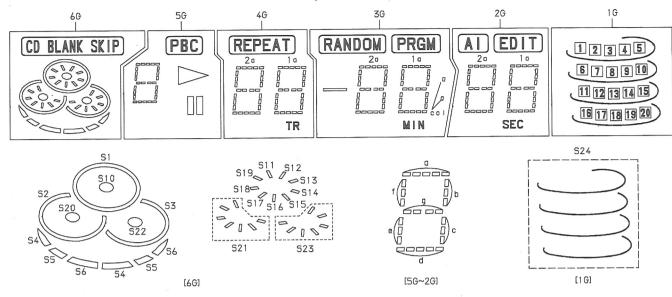
TRANSISTOR ILLUSTRATION (DX-NH1100)



2SC3052 RN1410

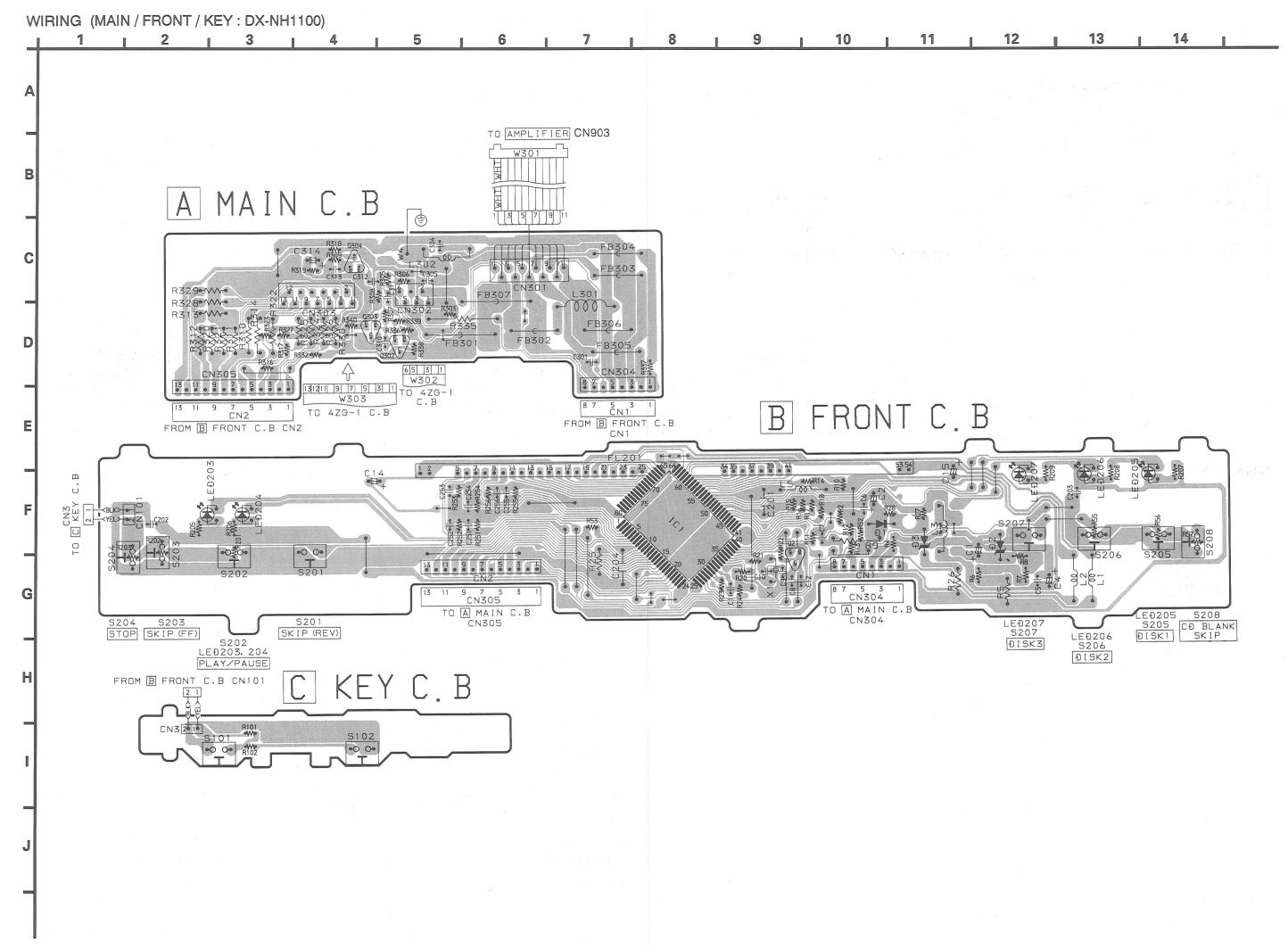
FL (6-BT-303GNK) GRID ASSIGNMENT & ANODE CONNECTION (DX-NH1100)

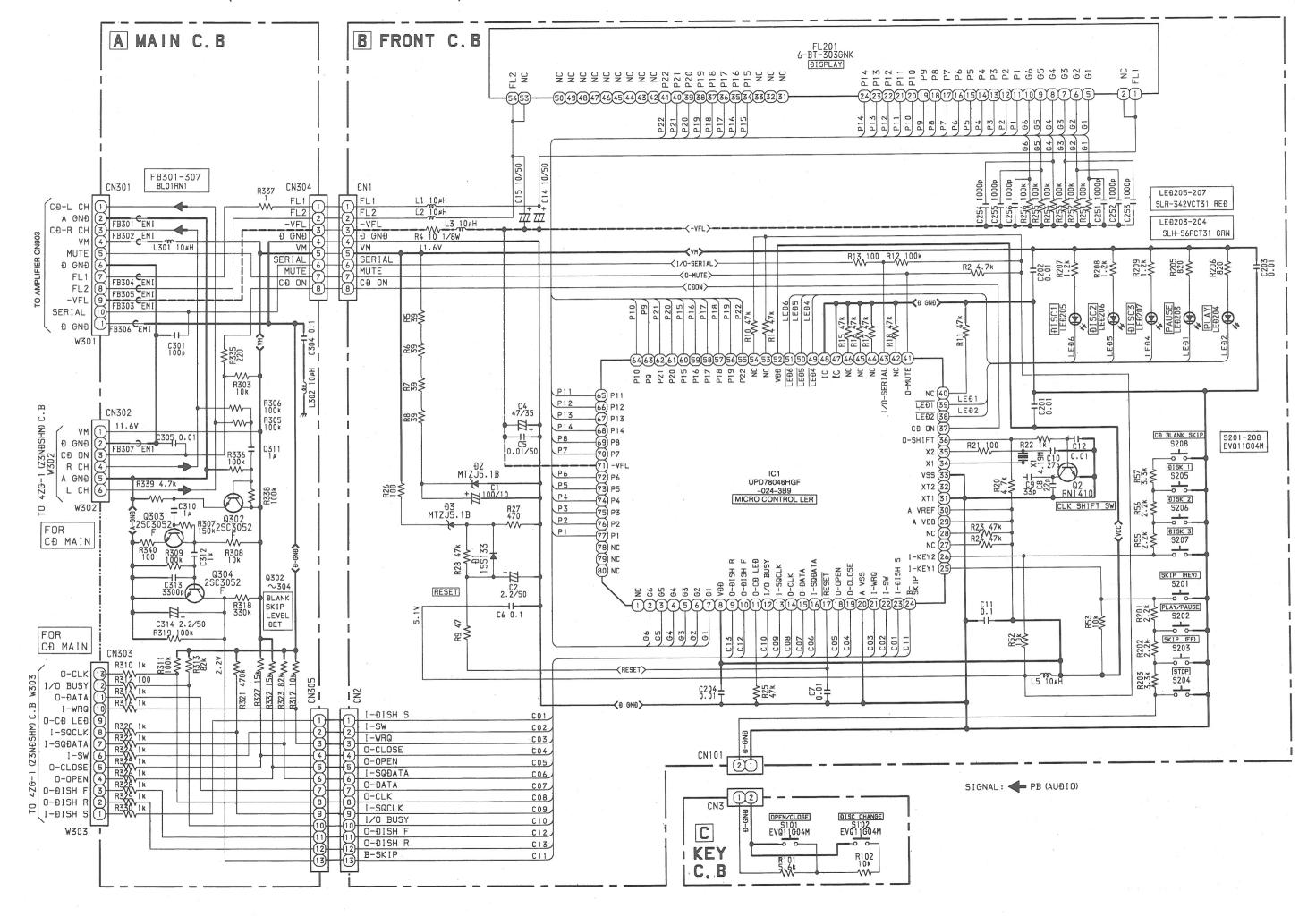
GRID ASSIGNMENT & ANODE CONNECTION (DX-NH1100)



ANODE CONNECTION

	6G	5G	4G	3G	2G	16
P1	510	а	1 a	1 a	1 a	1
P2	512	b	1 b	1 b	1 ь	2
P3	S11	f	1 f	1 f	11	3
P4	S13	g	1 g	1 g	1 g	4
P5	S19	С	1 c	1 c	1 c	5
P6	514	8	1 e	1 e	1 e	6
P7	518	d	1 d	1 d	1 d	7
Р8	S15	-	į –		_ ·	8
Р9	517	\triangleright	2 a	2 a	2ª	9
P10	516		2b	2b	2b	10
P11	S1	-	2 f	2 f	2 f	11
P12	520	-	2 g	2 g	2 g	12
P13	S21	-	2 c	2 c	2c	13
P14	52	-	2 e	2 e	2 e	14
P15	522	-	2 d	2 d	2 d	15
P16	523	-	TR	MIN	SEC	16
P17	53	PBC	REPEAT	col	EDIT	17
P18	54	(PBC)	(REPEAT)	PRGM	(EĐ1T)	18
P19	S5	-	-	(PRGM)	Al	19
P20	56	-	-	RANDOM	(A I)	20
P21	CD BLANK SKIP	. -	-	(RANĐOM)	-	524
P22	(CĐ BLANK SKIP)	-	-	-	-	-

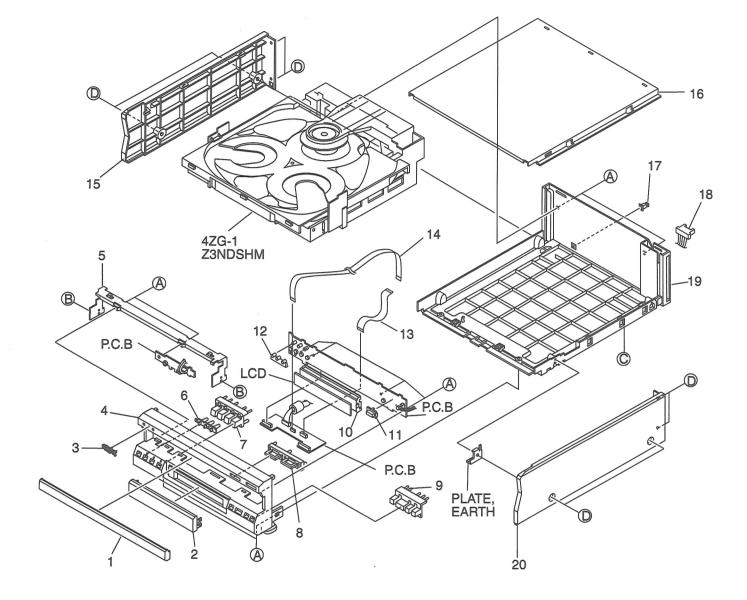




IC DESCRIPTION (DX-NH1100) IC, UPD78046HGF-032-3B9

Pin No.	Pin Name	I/O	Description
1	NC	-	Not connected.
2~7	G6~G1	0	FL grid output G6~G1.
8	VDD		Power supply terminal.
9	O-DISH R	0	CD turntable reverse rotation output.
10	O-DISH F	0	CD turntable forward rotation output.
11	O-CD LED	0	CD flash window LED ON/OFF output.
12	I/O BUSY	I/O	DSP serial latch output.
13	I-SQCLK	I	DSP SUB Q read-out clock output.
14	O-CLK	0	CD clock output.
15	O-DATA	0	CD data output.
16	I-SQDATA	I	DSP serial data input.
17	RESET	I	Reset input.
18	O-TRYOPN	0	CD tray open output.
19	O-TRYCLS	0	CD tray close output.
20	A VSS	-	GND.
21	I-WRQ	I	CD WRQ input.
22	I-SW	I	CD motor key switch A/D input.
23	I-DISH S	I	CD turntable photo sensor A/D input.
24	B-SKIP	I	BLANK SKIP A/D input.
25	I-KEY1	I	Key1 A/D input.
26	I-KEY2	I	Key2 A/D input.
27	NC	_	Not used.
28	NC	_	Not used.
29 .	A VDD	-	Power supply terminal.
30	A VREF	_	Power supply terminal.
31	XT1		Connect to GND.
32	XT2	_	Connect to GND.
33	VSS	_	GND.
34	X1		
35	X2	-	4.19MHz oscillator circuit.
36	O-SHIFT	0	Micro controller clock shift output. (Shift when "L").
37	O-CD ON	0	Power supply output for CD circuit ("H": ON).
38	LED-2	0	Play LED output.
39	LED-1	0	Pause LED output.
40	NC	_	Not used.
41	O-MUTE	0	CD Audio mute output.
42	NC		Not used.
43	I/O-SERIAL	I/O	Serial data input / output.
44~46	NC	-	Not used.
47,48	IC	_	Connect to GND.
49	LED4	0	Disc1 LED output.
50	LED5	0	Disc2 LED output.

Pin No.	Pin Name	I/O	Description
51	LED6	0	Disc3 LED output.
52	VDD	_	Power supply terminal.
53	NC	-	Not used.
54	NC	-	Not used.
55	P22 (O-SEG V)	0	FL segment output P22.
56	P19 (O-SEG S)	0	FL segment output P19.
57	P18 (O-SEG R)	0	FL segment output P18.
58	P17 (O-SEG Q)	0	FL segment output P17.
59	P16 (O-SEG P)	0	FL segment output P16.
60	P15 (O-SEG O)	0	FL segment output P15.
61	P20 (O-SEG T)	0	FL segment output P20.
62	P21 (O-SEG U)	0	FL segment output P21.
63	P9 (O-SEG I)	0	FL segment output P9.
64	P10 (O-SEG J)	0	FL segment output P10.
65	P11 (O-SEG K)	0	FL segment output P11.
66	P12 (O-SEG L)	0	FL segment output P12.
67	P13 (O-SEG M)	0	FL segment output P13.
68	P14 (O-SEG N)	0	FL segment output P14.
69, 70, 72~77	P8~1 (O-SEG H~A)	0	FL segment output P8~P1.
71	-VFL	_	FL display negative supply terminal.
78~80	NC	-	Not connected.



MECHANICAL PARTS LIST 1/1 (DX-NH1100)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
2 3 4	8Z-SX1-002-010 8Z-SX1-003-010 87-B00-002-010 8Z-SX1-001-010 8Z-SX1-201-010	WINDOW, BADGE, CABI, FF	CD AIWA 30 ABS SIL R
7 8 9	8Z-SX1-009-010 8Z-SX1-005-010 8Z-SX1-004-010 8Z-SX1-008-010 88-SX1-203-210	KEY, DIS KEY, OPE KEY, ASS	EN SY OPE
12 13 14	8Z-SX1-202-010 8Z-SX1-203-010 88-913-121-110 88-906-481-110 8Z-SX1-011-010	GUIDE, I FF-CABI FF-CABI	ED DISC LE,P1.25 LE, 6P 1.25 480MM
17 18 19	8Z-SX1-013-010 84-ZG1-245-210 88-SX1-610-010 8Z-SX1-016-010 8Z-SX1-017-010	CAP, OPT CORD, FO CABI, RE	TICAL
A B C	8Z-SX1-012-010 87-067-703-010 87-721-097-410 87-067-633-010 87-B10-091-010	TAPPING QT2+3-1 TAPPING	S SCREW, BVT2+3-10

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
В	Black	С	Cream	D	Orange
G	Green	Н	Gray	L	Blue
LT	Transparent Blue	N	Gold	Р	Pink
R	Red	S	Silver	ST	Titan Silver
Т	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

FX-NH1100

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI DESCRIPTION NO.	REF. NO.	PART NO.	KANRI DESCRIPTION NO.
IC	87-A20-455-010 87-A20-355-010 8Z-SW1-608-040 87-020-454-010	IC,CXA1553P IC,M38503M4-094FP T4	C356 C357 C358 C359 C360	87-010-260-080 87-010-197-080 87-010-183-080 87-010-183-080 87-010-183-080	CAP, ELECT 47-25V C-CAP,S 0.01-25 KB C2012 C-CAP,S 2700P-50 B C-CAP,S 2700P-50 B
TRANSISTO	R 87-A30-087-080	C-FET,2SK2158	C370 C371 C372 C373 C374	87-010-196-080 87-010-179-080 87-010-179-080 87-010-179-080 87-010-179-080	CAP, CHIP S B1200P CAP, CHIP S B1200P CAP, CHIP S B1200P
	87-A30-074-080 87-026-610-080 87-A30-073-080 87-A30-076-080 89-112-965-080	TR, KTC3198GR C-TR, RT1N 141C C-TR, 2SC3052F	C375 C376 C378 C381 C382	87-010-545-080 87-010-545-080 87-010-196-080 87-010-197-080 87-010-318-080	CAP, ELECT 0.22-50V CHIP CAPACITOR, 0.1-25 C-CAP, S 0.01-25 KB C2012
	87-A30-085-070 89-318-155-080 89-332-665-080 87-A30-164-080	C-TR,CSA1362GR TR,2SC1815 (0.4W) TR,2SC3266GR <yjsm> TR,CSC2001K<ysm></ysm></yjsm>	C383 C384 C385 C386	87-010-197-080 87-010-403-080 87-010-184-080 87-010-196-080	C-CAP,S 0.01-25 KB C2012 CAP, ELECT 3.3-50V CHIP CAPACITOR 3300P(K) CHIP CAPACITOR,0.1-25
DIODE	87-026-263-080 87-A30-071-080 87-026-463-080		C399 C601 C602 C603 C604 C605	87-010-197-080 87-015-997-090 87-010-381-080 87-010-101-080 87-010-237-080 87-010-198-080	CAP,E 2200-16 SME CAP, ELECT 330-16V CAP, ELECT 220-16 CAP, ELECT 1000-16V
MAIN C.B	87-A40-269-080 87-020-465-080 87-017-931-080		C606 C607 C609 C610 C611	87-010-198-080 87-010-404-080 87-010-263-080 87-010-196-080 87-010-318-080 87-010-312-080	CAP, ELECT 4.7-50V CAP, ELECT 100-10V CHIP CAPACITOR,0.1-25 C-CAP,S 47P-50 CH
C301 C302 C303 C304	87-010-318-080 87-010-318-080 87-012-157-080 87-012-157-080 87-012-145-080	C-CAP,S 47P-50 CH C-CAP,S 47P-50 CH C-CAP,S 330P-50 CH C-CAP,S 330P-50 CH CAP, CHIP S 270P CH	C612 C613 C614 CN301 CN501	87-010-315-080 87-010-404-080 87-010-197-080 87-049-919-010 87-099-750-010	C-CAP,S 27P-50 CH CAP, ELECT 4.7-50V CAP, CHIP 0.01 DM CONN,3P EH V WHT
C307 C311 C312	87-012-145-080 87-010-196-080 87-010-198-080 87-010-198-080 87-010-180-080	CAP, CHIP S 270P CH CHIP CAPACITOR, 0.1-25 CAP, CHIP 0.022 CAP, CHIP 0.022 C-CER 1500P	CN702 CN704 FB301 FB601 FB602	87-A60-062-010 87-A60-060-010 87-008-372-080 87-008-372-080 87-008-372-080	CONN,07P V 9604S-07C FILTER, EMI BL OIRNI FILTER, EMI BL OIRNI
C315 C316 C317	87-010-180-080 87-010-178-080 87-010-178-080 87-012-142-080 87-012-142-080	C-CER 1500P CHIP CAP 1000P <ysm> CHIP CAP 1000P<ysm> CAP, S 0.33-16 CAP, S 0.33-16</ysm></ysm>	FB604	87-008-372-080 87-A90-923-010 87-A50-049-010 87-A50-049-010 87-007-342-010	F-BEAD,8-13-14 E1314MRT COIL,TRAP 85K(COI) COIL,TRAP 85K(COI)
C320 C321 C322	87-012-141-080 87-012-141-080 87-012-141-080 87-012-141-080 87-010-260-080	CHIP-CAPACITOR, 0.22-16F CHIP-CAPACITOR, 0.22-16F CHIP-CAPACITOR, 0.22-16F CHIP-CAPACITOR, 0.22-16F CAP, ELECT 47-25V		87-005-130-080 87-005-130-080 87-099-827-010 87-099-832-010 87-024-355-080	COIL,10UH CONN,3P S2M-3W CONN,8P S2M-8W
C327 C328 C332	87-010-370-080 87-010-404-080 87-010-404-080 87-010-196-080 87-010-401-080	CAP,E 330-6.3 SME CAP, ELECT 4.7-50V CAP, ELECT 4.7-50V CHIP CAPACITOR,0.1-25 CAP, ELECT 1-50V	SFR304 SFR305	87-024-355-080 87-024-355-080 87-024-355-080 87-024-356-080 87-024-356-080	SFR,33K DIA6 H SFR,33K DIA6 H SFR,47K DIA6 H
C337 C339 C340	87-010-401-080 87-010-196-080 87-010-196-080 87-010-196-080 87-012-140-080	CAP, ELECT 1-50V CHIP CAPACITOR,0.1-25 CHIP CAPACITOR,0.1-25 CHIP CAPACITOR,0.1-25 CAP 470P	SFR352 W601	87-024-356-080 87-024-356-080 88-SW1-607-010 87-A70-120-080	SFR,47K DIA6 H CORD,FG9P
C354	87-012-140-080 87-010-175-080 87-010-178-080	CAP 470P CAP 560P <ysm> CHIP CAP 1000P<ysm></ysm></ysm>	FRONT-1 C.	B 87-A60-062-010	CONN,05P V 9604S-05C

REF.	NO. PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
D701	87-070-278-01	0 LED,SLZ	-738A-24-S	HEAD-2 C.	3		
D702	87-002-787-08	0 LED, SEL	6215S RED				
S701	87-A90-095-08	0 SW, TACT	EVQ11G04M		85-ZM3-602-010	PWB,	FLEX A
S702	87-A90-095-08	0 SW, TACT	EVQ11G04M				
S703	87-A90-095-08	<pre>0 SW,TACT</pre>	EVQ11G04M				
				DECK C.B			
S704	87-A90-095-08	0 SW, TACI	EVQ11G04M				
					87-099-756-010		1,15P 9604 S F
					87-024-581-089	,	3.3K DIA 6H
FRONT-2	C.B			SOL1	82-ZM1-618-010	SOL	ASSY, 27
				SOL2	82-ZM1-618-010		ASSY, 27
CN703	87-A60-060-01	0 CONN, 07	P V 9604S-07C	SW1	87-A90-248-010	SW, M	IICROESE11SH2CXQ
D711	87-A40-496-04	0 LED, SLR	-342MCT31 GRN				
D712	87-A40-496-04	0 LED, SLR	-342MCT31 GRN	SW2	87-A90-248-010	SW, M	IICROESE11SH2CXQ
D713	87-A40-496-04	0 LED, SLR	-342MCT31 GRN	SW3	87-A90-248-010	SW, M	IICROESE11SH2CXQ
D714	87-070-278-01	0 LED, SLZ	-738A-24-S	SW4	87-036-110-010	SW,M	IICRO SPPB62
				SW5	87-036-110-010	SW,M	IICRO SPPB62
S711	87-A90-095-08	O SW, TACT	EVQ11G04M	SW6	87-036-110-010	SW,M	IICRO SPPB62
S712	87-A90-095-08	O SW, TACT	EVQ11G04M				
S713	87-A90-095-08	O SW, TACT	EVQ11G04M	SW8	87-A90-248-010	SW, M	IICRO ESE11SH2CXQ
S714	87-A90-095-08	SW, TACT	EVQ11G04M	SW9	87-036-110-010	SW, M	IICRO SPPB62
S715	87-A90-095-08	SW, TACT	EVQ11G04M	W1	82-ZM3-601-010	RBN,	CORD 4P-75
HEAD-1	C.B						
	85-ZM3-602-01) PWB, FL	EX A				

Oチップ抵抗部品コード/CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

8 8 - □ □ □ □ □ □ □

A
抵抗部品コード
Resistor Code
抵抗値
Value of resistor

チップ抵抗 Chip resistor

Cimp resistor								
容量	種類	許容誤差	記号	寸法/Dim	抵抗コード : A			
Wattage	Type	Tolerance	Symbol	外形/Form	L	W	t	Resistor Code: A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ	L J	1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ	ŗ	3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION (FX-NH1100)



ЕСВ

2SC1815

2SC3266

CSC2001K

KTC3198GR



ВСЕ

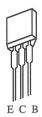
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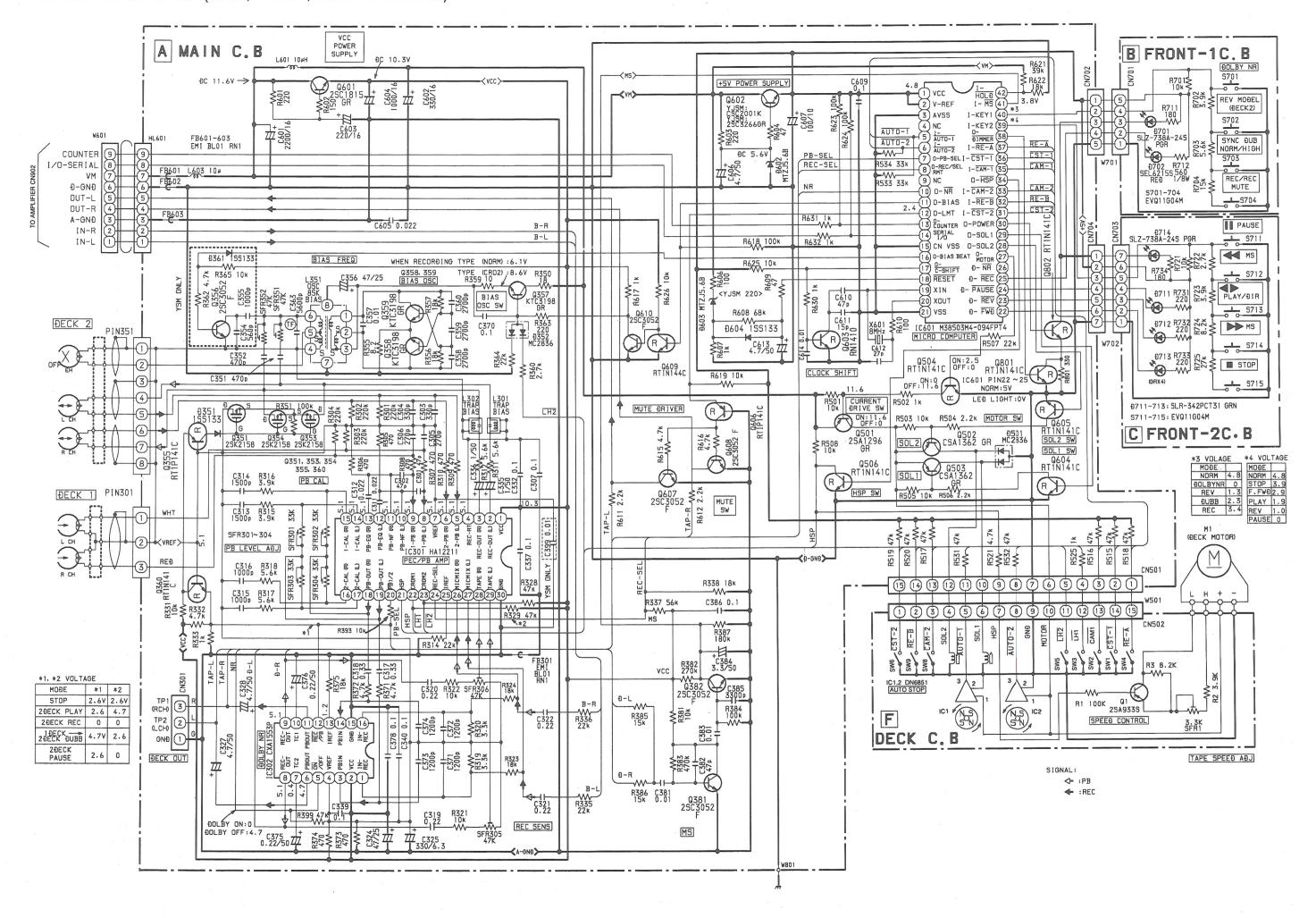
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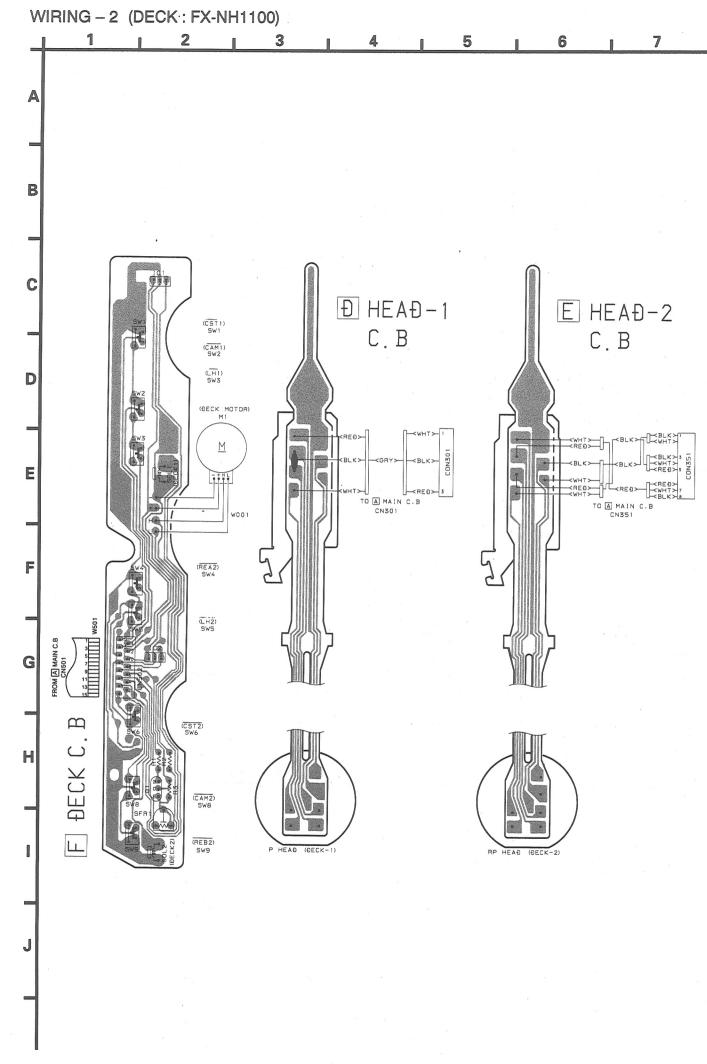


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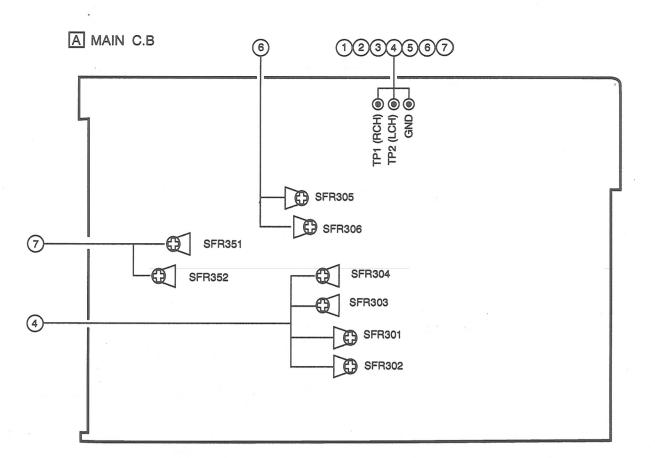


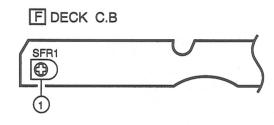
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ADJUSTMENT < DECK> (FX-NH1100)





< DECK SECTION >

1. Tape Normal Speed Adjustment (DECK1, DECK2)

Settings: • Test tape: TTA-100 (Tape center) TP1 (Rch), TP2 (Lch) • Test point :

• Adjustment location : SFR1

Method: Play back the test tape and adjust SFR1 so that the test point becomes $3000Hz \pm 5Hz(FWD)$ Then check REV speed is $3000Hz \pm 45Hz$.

2. High Speed Check (DECK1, DECK2)

Settings: • Test tape: • Test point :

TTA-100 (Tape center) TP1 (Rch), TP2 (Lch)

Method: After normal speed adjustment, play back (High speed) the test tape. Then check tape speed is 6000Hz ±400Hz (FWD).

3. Head Azimuth Adjustment (DECK1, DECK2)

Settings: • Test tape:

TTA-300

TP1(Rch), TP2 (Lch) • Test point :

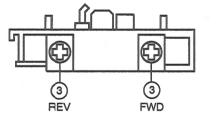
· Adjustment location: Head azimuth

adjustment screw

Method: Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD

PLAY and REV PLAY mode.

DECK-1 P, DECK-2R/P/E HEAD HEAD



4 PB Sensitivity Adjustment (DECK1, DECK2)

Settings: • Test tape: TTA-200

TP1 (Rch), TP2 (Lch) • Test point:

• Adjustment location : SFR301 (DECK1, Lch)

SFR302 (DECK1, Rch)

SFR303 (DECK2, Lch)

SFR304 (DECK2, Rch)

Method: Play back the test tape and adjust SFRs so that the output level of the test point becomes 245mV (DECK2), 260mV (DECK1).

5. PB Frequency Response Check (DECK1, DECK2)

Settings: • Test tape:

• Test point:

TTA-300 TP1 (Rch), TP2 (Lch)

Method: Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the

10kHz signal with respect to that of the 315Hz

signal is 0dB.

Next, check that the Lch and Rch difference level of 10kHz signal is less than 2dB.

PRACTICAL SERVICE FIGURE (FX-NH1100)

6. REC/PB Sensitivity Adjustment (DECK2)

Settings: • Test tape:

TTA-602

• Test point :

TP1 (Rch), TP2 (Lch)

• Input signal:

1kHz (LINE IN)

• Adjustment location : SFR305 (Lch)

SFR306 (Rch)

Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP1, TP2 becomes 0dB (17mV). Record and play back the 1kHz signals and adjust SFRs so

that the output is $0dB \pm 0.5dB$.

7. REC/PB Frequency Response Adjustment (DECK2)

Settings: • Test tape:

TTA-602

• Test point :

TP2 (Lch), TP1 (Rch)

• Input signal:

1kHz/10kHz

(LINE IN)

• Adjustment location: SFR351 (Lch)

SFR352 (Rch)

Method:

Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP1, TP2 becomes 0dB (17mV). Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output level of the 10kHz signals becomes $0dB \pm 0.5dB$ with respect to that of the

1kHz signal.

<DECK SECTION>

Tape speed:

 $3000Hz \pm 45Hz$

Wow & flutter:

Less than 0.21% (W.R.M.S DECK 1, 2)

Pinch roller pressure:

270 ~ 330g (FWD, REV)

Take-up torque: F.F & REW torque:

30 ~ 55g-cm (FWD, REV)

75 ~ 160g-cm (FWD)

75 ~ 160g-cm (REW)

Back tension: PB Output level: 3 ± 4 g-cm (DECK 1, 2) $245 \text{mV} \pm 1 \text{dB} \text{(DECK 1)}$

 $230\text{mV} \pm 1\text{dB} \text{(DECK 2)}$

REC/PB Output level:

 $165 \text{mV} \pm 2 \text{dB} \text{ (NORMAL, CrO2)}$

Distortion (REC/PB): Noise level (PB):

Less than 2.0% (NORMAL, CrO2)

Less than 1.8mV

(NORMAL, ALL FUNCTION OFF)

Noise level (REC/PB): Less than 2.0mV

(NORMAL, ALL FUNCTION OFF)

Erasing ratio: Test tape:

More than 60dB (at 125Hz, 10VU)

NORMAL: TTA-602

CrO2: TTA-615

IC DESCRIPTION (FX-NH1100) IC, M38503M4-094FP T4

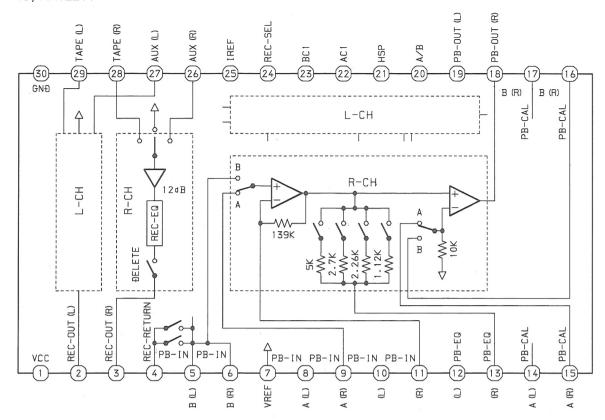
Pin No.	Pin Name	I/O		De	escription				
1	VCC	-	IC power supply.		***************************************				
2	V-REF	-	Connected to VCC.		-				
3	AVSS	-	Connected to GND.						
4	NC	-	Not connected.			2			
5	I-AUTO1	I	Input of DECK 1 reel platfor	rm pulse.					
6	I-AUTO2	I	Input of DECK 2 reel platfor	rm pulse.	-				
7	O-PB-SEL	0	Three-state output. *2	L	O-REC-SEL TAPE	O-PB-SEL DECK 2 REC			
8	O-REC-SEL	0		H H1-Z	REC IN REC MUTE	DECK 2 PB DECK 1 PB			
9	NC	-	Not connected.						
10	O-NR	0	When NR is ON: "L".		, sec	3			
11	O-BIAS	0	BIAS control.			9			
. 12	O-LMT	0	Output LINE MUTE. When	MUTE:	H".				
13	O-COUNTER	0	Output tape counter data.	22					
14	SERIAL I/O	I/O	Serial I/O terminal.			2			
15	CN VSS	-	Connected to GND.	Connected to GND.					
16	O-B BEAT	0	For bias beat changeover. When in operation: "H". Initial: "L".						
17	O-C SHIFT	0	While clock shift: "L" **						
18	RESET	I	RESET signal input pin.						
19	XIN	I	Crystal oscillation pin.						
20	XOUT	0	Crystal oscillation pin.						
21	VSS	-	Connected to GND.		** _{2.}				
22	D-FWD	0	When Power is ON: "L" und "H" repeated). While FF: fas			operates: flashing ("L" ↔			
23	D-RVS	0	When Power is ON: "L" und "H" repeated). While REW:			perates: flashing ("L" ↔			
24	D-PAUSE	0	When Power is ON: "L" under	STOP state	s. While PAUSE: fla	shing ("L" ↔ "H" repeated).			
25	D-REC	0	While REC, DUBBING: "L	". While I	REC, MUTE: flashin	ng.			
26	D-NR	0	When NR is ON: "L". (Not	connected	<u>.</u>				
27	O-MOTOR	0	When MOTOR is in operation	on or powe	er on (500msec): "H	l".			
28	O-SOL2	0	When DECK 2 solenoid is in	n operation	ı: "H".				
29	O-SOL1	0	When DECK 1 solenoid is in	n operation	ı: "H".				
30	O-POWER	0	When POWER of MX-NM1	000 / NH	1000 is ON: "H" *	*			
31	I-CST-2	I	DECK 2 cassette detection.	When cas	sette exists: "L".				
32	I-RE-B	I	DECK 2 side B REC enable	. When re	cordable: "L".				
33	I-CAM-2	I	DECK 2 cam. When switch	is ON: "L	".				
34	O-HSP	0	Output high speed signal. Hi	igh speed:	"L".				
35	I-CAM-1	I	DECK 1 mechanism cam. V	When swite	ch is ON: "L".				
36	I-CST-1	I	DECK 1 cassette detection.	When cas	sette exists:"L".				
37	I-RE-A	I	DECK 2 side A REC enable	. When re	cordable: "L"				

Pin No.	Pin Name	I/O	Description
38	O-DIMMER	0	Ordinarily "H". When MX-NH1100 is in DIMMER 1 or 2 mode: "L".
39	I-KEY2	Į.I	KEY input 2. AD input.
40	I-KEY1	I	KEY input 1. AD input.
41	I-MS	I	MS input. AD input.
42	I-HOLD	I	System power supply monitor. AD input.

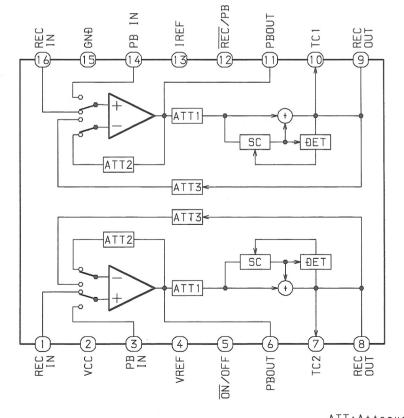
^{*}P1Ns 22, 23, 24, 25, and 26 should be "H" when MX-NH1100 is in DIMMER 2 mode.

IC BLOCK DIAGRAM (FX-NH1100)

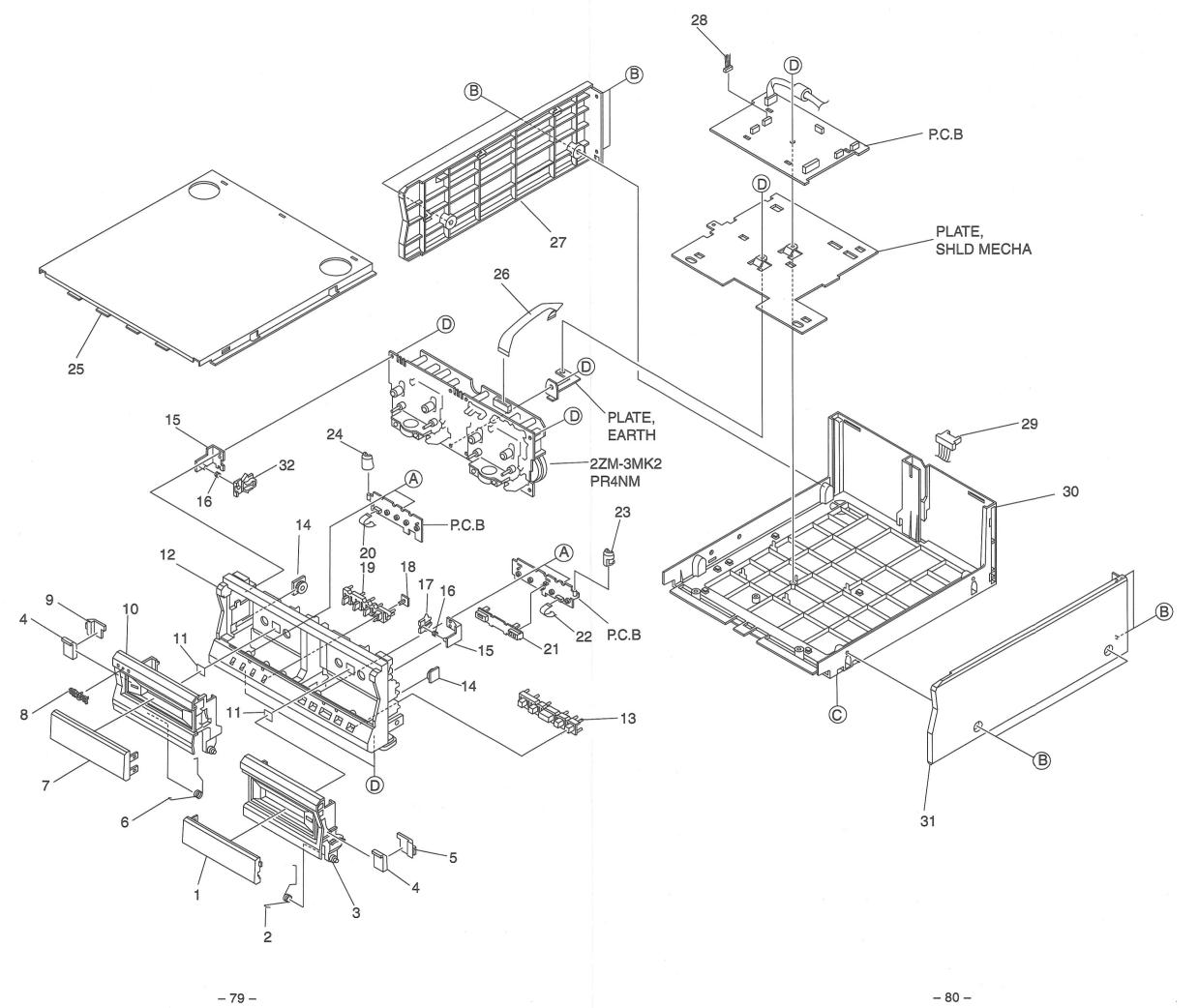
IC, HA12211



IC, CXA1553P



ATT:Attenuator SC:Side Chain ĐET:Đetector



MECHANICAL PARTS LIST 1/1 (FX-NH1100)

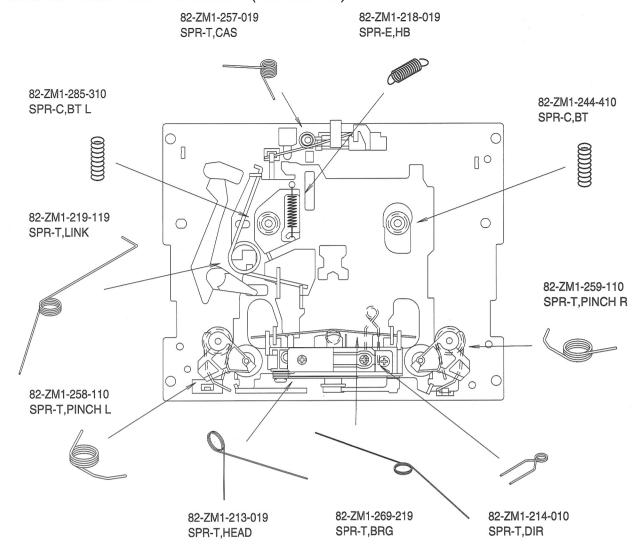
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

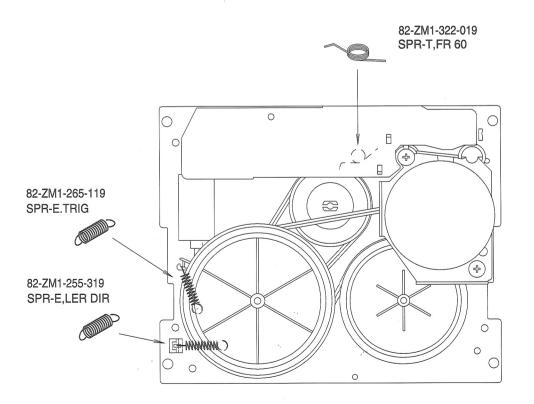
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	F	REF. NO.	PART NO.	KANF NO.	RI DESCRIPTION
2 3 4	8Z-SW1-005-010 82-NF5-219-010 8Z-SW1-003-010 8Z-SW1-013-010 8Z-SW1-202-010	SPR-T,E BOX,CAS REFLECT	JECT 2 (SIN)		22 23 24	8Z-SW1-203-010 88-907-301-110 8Z-SW1-206-010 8Z-SW1-205-010 8Z-SW1-015-010		GUIDE,LED OPE FF-CABLE, 7P 1.25 GUIDE,LED CASS 2 GUIDE,LED CASS 1 CABI,STEEL
7 8 9	82-NF5-218-010 8Z-SW1-004-010 87-B00-002-010 8Z-SW1-201-010 8Z-SW1-002-010	WINDOW, BADGE,A COVER,	IWA 30 ABS SIL REFLECTOR 1		27 28 29	88-915-161-110 8Z-SW1-016-010 86-NF5-618-110 88-SW1-607-010 8Z-SW1-020-010		FF-CABLE, 15P 1.25 PANEL,SIDE L CONN ASSY,8P RPB CORD,FG9P CABI,REAR YJSM <yj></yj>
12 13 14	81-532-080-010 8Z-SW1-001-010 8Z-SW1-012-010 87-NF8-220-010 82-NF5-229-010	CABI, FR KEY, ASS DMPR, 15	Y OPE O		31 32 A	8Z-SW1-022-010 8Z-SW1-017-010 87-NF4-216-010 87-067-579-010 87-B10-091-010		CABI,REAR YSM <y> PANEL,SIDE R HLDR,LOCK 1 TAPPING SCREW, BVT2+3-8 UTT2+3-10 W/O BLK</y>
17 18 19	86-NF9-224-010 87-NF4-217-110 8Z-SW1-204-010 8Z-SW1-011-010 88-905-331-110	HLDR,LO GUIDE,L KEY,ASS	CK 2 ED			87-067-633-010 87-067-703-010		TAPPING SCREW, BVT2+3-8 TAPPING SCREW, BVT2+3-10

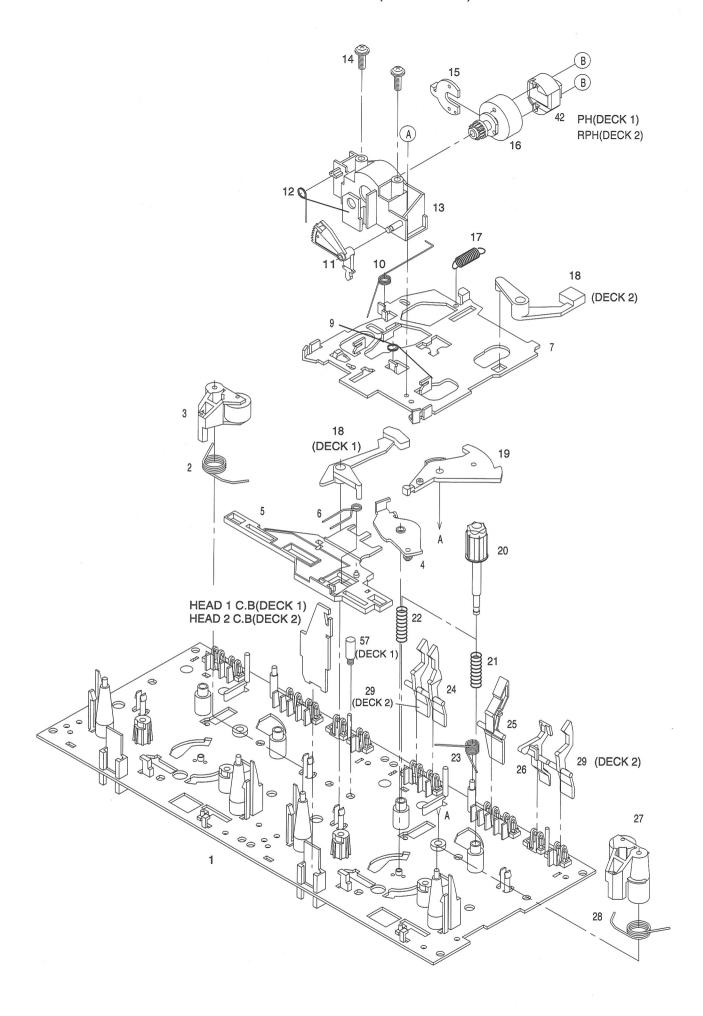
COLOR NAME TABLE

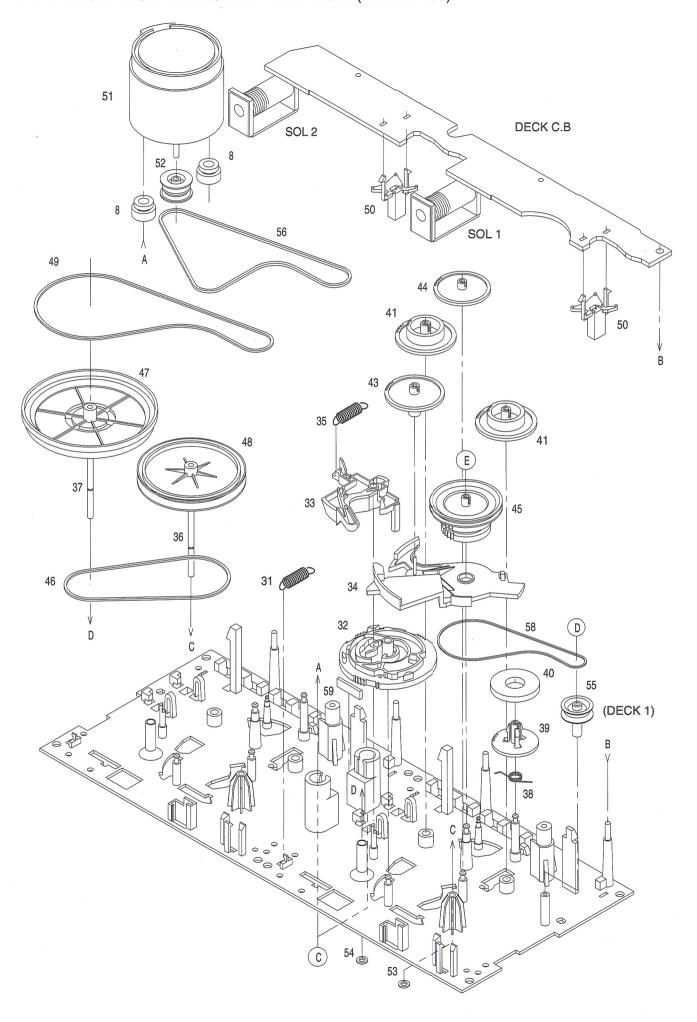
Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
В	Black	С	Cream	D	Orange
G	Green	Н	Gray	L	Blue
LT	Transparent Blue	N	Gold	Р	Pink
R	Red	S	Silver	ST	Titan Silver
Т	Brown	V	Violet	W	White
WT	Transparent White	Υ	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

SPRING APPLICATION POSITION (FX-NH1100)









TAPE MECHANISM PARTS LIST 1/1 (FX-NH1100)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANF NO.	RI DESCRIPTION	REF. NO.	PART NO.	Kan No.		DESCRIPTION	
1	82-ZM3-301-519		CHAS ASSY,M2	2.0	00 7741 006 010		~		
	82-ZM3-301-319 82-ZM1-258-110		SPR-T, PINCH L		82-ZM1-236-019 82-ZM1-239-019			N 2-41.5	
	82-ZM1-341-110		LVR ASSY, PINCH L2		82-ZM1-322-019		SPR-T, FF	N 2.2-41.7	
	82-ZM1-333-010		PLATE, LINK 2		82-ZM1-322-019 82-ZM1-220-219		GEAR, IDI		
	82-ZM1-266-11K		LVR, DIR		82-ZM3-616-019		RING MAG		
	00 0111 000 1110		BVILLY DITE	40	02-2113-010-019		KING MAG	MEI 4	
6	82-ZM1-214-010		SPR-T, DIR	41	82-ZM1-216-31K		GEAR, REE	er,	
7	82-ZM1-206-81K	. (CHAS, HEAD		87-A90-319-010			HADKH2 FPC	
8	82-ZM3-307-019	(CUSH-G, DIA3.7-8-3.2		87-A90-320-010			HADKH5 FPC	
	82-ZM1-269-219		SPR-T,BRG		82-ZM1-225-21K		GEAR, FR		
10	82-ZM1-219-119	5	SPR-T, LINK	44	82-ZM1-226-019		GEAR, REW	1	
							,		
	82-ZM1-210-119		GEAR,H T	45	82-ZM3-333-310		SLIP DIS	K ASSY 2	
	82-ZM1-213-019		SPR-T,HEAD		82-ZM1-338-010		BELT FR4	1	
	82-ZM1-207-619		GUIDE, TAPE		82-ZM1-349-110			R W(DECK 2)	
14	86-ZM4-206-010	5	S-SCREW, AZIMUTH		82-ZM3-338-110		FLY-WHL,	R3 W(DECK 1)	
15	82-ZM1-314-119	I	PLATE, HEAD	48	82-ZM1-348-010		FLY-WHL,	L W(DECK 2)	
16	82-ZM1-208-119		מניוו מחוו	4.0	00 ==== 0.40 0.40				
	82-ZM1-208-119 82-ZM1-218-019		HLDR, HEAD		82-ZM1-348-010			L W(DECK 1)	
	82-ZM1-263-110		SPR-E,HB JVR,EJECT L (DECK 1)		82-ZM3-329-210		BELT, SBU	R2	
	82-ZM1-264-010		JVR,EJECT L (DECK 1) JVR,EJECT R (DECK 2)		82-ZM1-245-210		HLDR, IC	- 50 (
	82-ZM1-204-010		JVR, BUECT R (DECR 2) JVR, PLAY		87-045-347-019 82-ZM3-221-010			L 70(M1)	
10	02-2MI-222-2IK	1	IVR, FDAI	52	8Z-ZM3-ZZI-UIU		PULLEY, M	IOT ZM	
20	82-ZM1-217-319	F	REEL TABLE	53	82-ZM1-288-019		SH 1 63-	3.2-0.5 SLT	
21	82-ZM1-244-510	S	SPR-C,BT		80-ZM6-243-019			3.6-0.5 SLT	
22	82-ZM1-285-310	2	SPR-C, BT L		82-ZM3-335-210			OUPLER M3 (DECK	1)
23	82-ZM1-257-019	5	SPR-T, CAS		82-ZM3-337-010		BELT, SBU		-/
24	82-ZM1-241-319	I	VR,MC	57	82-ZM3-339-010			UPLER N3 (DECK 1	1)
									,
	82-ZM1-242-019		VR,CAS		86-ZM1-206-010		BELT, MAI	N L	
	82-ZM1-243-019		VR,STOP		82-ZM3-340-010		SH, BELT		
	82-ZM1-344-110		JVR ASSY, PINCH R2		85-ZM3-202-010		S-SCREW,	TG	
	82-ZM1-259-110		PR-T, PINCH R		80-ZM6-207-019		V+1.6-7		
29	82-ZM1-240-11K	I	VR,REC (DECK 2)	С	82-ZM3-318-019		S-SCRW M	OTOR M2	
31	82-ZM1-255-319	0	PR-E,LVR DIR	D	87-B10-043-010		0.0 O C 13	-4-0.25 SLT	
	82-ZM3-305-01K		EAR, CAM M2		82-ZM3-334-010		PW, 2.16-		
	82-ZM1-227-21K		VR, TRIG	£	02-4M3-334-010		rw,∠.16-	0-0.4	
	82-ZM3-306-11K		VR, FR M2						
	82-ZM1-265-119		PR-E, TRIG						

GE-NH1100/NAVH1200

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	Kanri No.	DESCRIPTION	REF. NO.	PART NO.	Kanri No.	DESCRIPTION	
IC	8Z-SU1-603-010 87-A21-023-040		6448W-5L20 3835F	LED215 LED216 S301 S302 S303	87-A40-317-080 87-A40-317-080 87-A90-095-080 87-A90-095-080 87-A90-095-080	LED, SLR SW, TACT SW, TACT	-342VCT31 RED<1200> -342VCT31 RED<1200> EVQ11G04M EVQ11G04M EVQ11G04M	
TRANSISTO	R			S304	87-A90-095-080		EVQ11G04M	
	87-026-263-080	C-TR,RN	1410	S305 S306 S307 S308	87-A90-095-080 87-A90-095-080 87-A90-095-080 87-A90-095-080	SW, TACT SW, TACT	EVQ11G04M EVQ11G04M EVQ11G04M EVQ11G04M	
DIODE	87-070-136-080 87-017-931-080 87-020-465-080	ZENER, M		S309 S310 S311 S312 S313	87-A90-095-080 87-A90-095-080 87-A90-095-080 87-A90-095-080 87-A90-095-080	SW, TACT SW, TACT SW, TACT	EVQ11G04M EVQ11G04M EVQ11G04M EVQ11G04M EVQ11G04M<1200>	
MAIN C.B				S314 S315	87-A90-095-080 87-A90-095-080		EVQ11G04M EVO11G04M	
C101 C103 C105	87-010-550-040 87-010-497-040 87-010-312-080	CAP,E 4 C-CAP,S	00-6.3 GAS .7-35 GAS 15P-50 CH	S316 W101 WH101	87-A91-076-010 8Z-SU1-608-010 87-A90-882-010	SW, RTRY CORD, 52	REO121PVB25FINA1 305-101BLK RE 10P 1.5 51016	
C106 C107	87-010-320-080 87-010-316-080		P 68P 33P-50 CH	X101	87-A70-070-080	VIB,CER	5.76MHZ CRHF	
C108 C109 C110 C111 C201	87-010-196-080 87-010-196-080 87-012-368-080 87-010-552-040 87-012-140-080	CHIP CA C-CAP,S CAP,E 2	PACITOR,0.1-25 PACITOR,0.1-25 0.1-50 F 2-16 GAS P					
C202 C203	87-012-369-080 87-010-404-040		0.047-50F .7-50 SME					
C204 C205 C206	87-010-405-040 87-010-405-040 87-010-405-040	CAP,E 1	0-50					
C301 C302 C303 C304 C401	87-010-196-080 87-010-196-080 87-010-197-080 87-010-182-080 87-010-196-080	CHIP CA: CAP, CH: C-CAP,S	PACITOR, 0.1-25 PACITOR, 0.1-25 IP 0.01 DM 2200P-50 B PACITOR, 0.1-25					
C402 C403 C404 C405 C406	87-010-196-080 87-010-993-080 87-010-993-080 87-012-358-080 87-010-196-080	CHIP CA: CHIP CA: C-CAP,S	PACITOR, 0.1-25 PACITOR, 0.056-25 PACITOR, 0.056-25 0.47-10 F Z PACITOR, 0.1-25	*				
C407 FL201 L101 L102 L103	87-012-158-080 8Z-SU1-605-010 87-005-152-080 87-005-130-080 87-005-130-080	FL,BJ699 COIL,101 COIL,101	JH JH					
L104 L301 LED201 LED202 LED203	87-005-152-080 87-003-097-080 87-A40-380-080 87-A40-380-080 87-A40-380-080	COIL, 1UI LED, SEL LED, SEL						
LED204 LED205 LED206 LED207 LED208	87-A40-380-080 87-A40-380-080 87-A40-380-080 87-A40-380-080 87-A40-380-080	LED, SEL LED, SEL LED, SEL	6510C-TP5 GRN 6510C-TP5 GRN 6510C-TP5 GRN 6510C-TP5 GRN 6510C-TP5 GRN					
LED209 LED210 LED211 LED212 LED213	87-A40-317-080 87-A40-317-080 87-A40-317-080 87-A40-317-080 87-A40-317-080	LED, SLR LED, SLR LED, SLR	-342VCT31 RED<1200> -342VCT31 RED<1200> -342VCT31 RED<1200> -342VCT31 RED<1200> -342VCT31 RED<1200>					
LED214	87-A40-317-080	LED, SLR	-342VCT31 RED<1200>					

Oチップ抵抗部品コード/CHIP RESISTOR PART CODE

チップ抵抗 Chip resistor

容量	種類	許容誤差	記号	寸法/Dimensions (mm)				抵抗コード : A
Wattage	Type	Tolerance	Symbol	外形/Form	L	W	t	Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ	L J t	1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ	۴	3.2	1.6	0.55	128

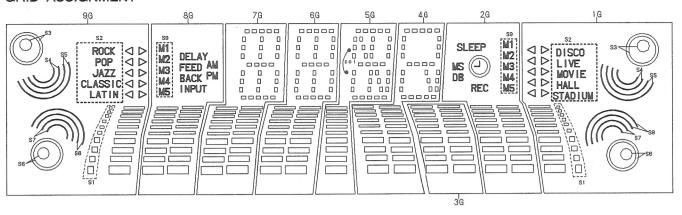
TRANSISTOR ILLUSTRATION (GE-NH1100 / NAVH1200)

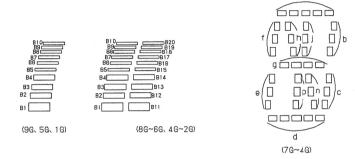


RN1410

FL (BJ699GK) GRID ASSIGNMENT & ANODE CONNECTION (GE-NH1100 / NAVH1200)

GRID ASSIGNMENT





ANODE CONNECTION

	9G	8G	7G	6G	5G	4G	36	2G	1 G
P1	> [M1]		a	а	а	a		_	[M1] <
P2	[M2]	S9	b	b	b	b	_	S9	[M2] <
Р3	[M3]	DELAY	f	f	f	f	_	SLEEP	[M3] <
P4	[M4]	FEED BACK	g	g	g	g		(1)	[M4] <
P5	(M5)	INPUT	С	С	С	С		REC	[M5] <
P6	[ROCK]	AM	е	е	е	е	_	MS	[D SC0]
P7	[POP] <	PM	d	d	d	ď		DB	(LIVE)
Р8	S1	B11	B11	B11	h	B11	B11	B11	S1
Р9	B1	B1	B1	B1	В1	В1	B1	В1	B1
P10	S6	B12	B12	n	B12	B12	B12	B12	S6
P11	B2	B2	B2	В2	B2	B2	B2	B2	B2
P12	S7	B13	B13	c o 1(上)	B13	B13	B13	B13	S7
P13	В3	В3	B3	В3	В3	В3	В3	В3	В3
P14	S8	B14	B14	co I(F)	B14	B14	B14	B14	S8
P15	B4	В4	B4	B4	B4	В4	B4	B4	B4
P16	\$3	B15	B15		B15	B15	B15	B15	\$3
P17	B5	B5	B5	B5	B5	B5	B5	B5	B5
P18	S4	B16	B16	_	B16	B16	B16	B16	\$4
P19	B6	B6	В6	B6	В6	B6	В6	B6	B6
P20	S5	B17	B17		B17	B17	B17	B17	S5
P21	В7	В7	В7	В7	B7	B7	В7	В7	B7
P22	S2	B18	B18	_	B18	B18	B18	B18	S2
P23	B8	B8	В8	B8	B8	B8	B8	B8	B8
P24	[JAZZ]	B19	B19		B19	B19	B19	B19	[MOVIE]
P25	В9	В9	В9	В9	В9	В9	В9	В9	В9
P26	[CLASSIC]	B20	B20		B20	B20	B20	B20	[HALL]
P27	B10	B10	B10	B10	B10	B10	B10	B10	B10
P28	[LATIN]		j, p	j, p	j, p	n	_	_	[SATAD I UM]

IC DESCRIPTION (GE-NH1100 / NAVH1200)

IC I C866448W-51 20

IC, LC866448 Pin No.	Pin Name	I/O	Description
	O-C.SHIFT	0	
1		+	Micro computer clock shift output.
2	PRO LOGIC	0	PRO LOGIC LED output.
3	3-STEREO	0	3 STEREO LED output.
4	PHANTOM	0	PHANTOM LED output.
5	NORMAL	0	NORMAL LED output.
6	NC	-	Not used.
7	RESET	I	Reset input.
8	NC		Not used (Connected to GND).
9	NC		Not used (Connected to GND).
10	VSS1		GND.
11	CF1		Connected to assistant (5.70MHz)
12	CF2	-	Connected to crystal oscillator (5.76MHz).
13	VDD1	-	Power supply.
			System power supply monitor AD input."H":Normal operation."L":to stop
14	I-HOLD	I	clock and main memory.
15	I-KEY1	I	KEY 1 AD input.
16	NC	-	Not used (Connected to GND).
17	I-SPEANA	. I	Spectrum analyzer level AD input.
18	NC	I	Not used (Connected to GND).
19	I-JOG	I	Jog rotary encoder input.
20~23	NC	† <u>-</u> †	Not used (Connected to GND).
24	PROLOGIC	I	Input prologic switch "H" when prologic, "L" when not prologic.
25~33	G1~G9	0	FL gird output.
34~40	S1~S7	0	FL Segment output.
41	VDD2	<u> </u>	Connected to GND.
42	VP		Power FL display negative supply terminal.
43~63	S8~S28	0	FL Segment output.
64	NC	1_	Not used.
65	LED ON	0	MULTI JOG LED output.
66	LED ON	0	MULTI JOG LED output.
67~69,72	NC	0	Not connected.
70	O-L FREQ ON	0	Speana low frequency output.
71	O-H FREQ ON	0	Speana high frequency output.
73	VSS2	1-	GND.
74	SPEANA C	0	Spectrum analyzer band switch output C.
75	SPEANA B	0	Spectrum analyzer band switch output B.
76	SPEANA A	0	Spectrum analyzer band switch output A.
77	SEL	0	Spectrum analyzer band switch output .
78~79	NC NC	0	Not connected.
80	I/O-SERIAL	I/O	Input/output serial data for communication.
	I/O-SERIAL	1,0	mpayoutput serial data for communication.

IC BLOCK DIAGRAM (GE-NH1100 / NAVH1200)

AIN(8)

VCC (9

IC, BA3835F BIAS (18) GNĐ BIASC (17) AOUT V R E F VREFC (2 REFFERENCE CURRENT (16) TEST RREF PEAK 105HZ BPF HOLĐ (15) NC NC RES 340HZ PEAK ÐIFOUT BPF HOLĐ (14) SEL RES PEAK 1KHZ NC (6) (13) NC MPX HOLĐ BPF RES CIN (7)C ÐIF 3.4KHZ (12) C PEAK HOLĐ BPF

RES

RES

ÐEC

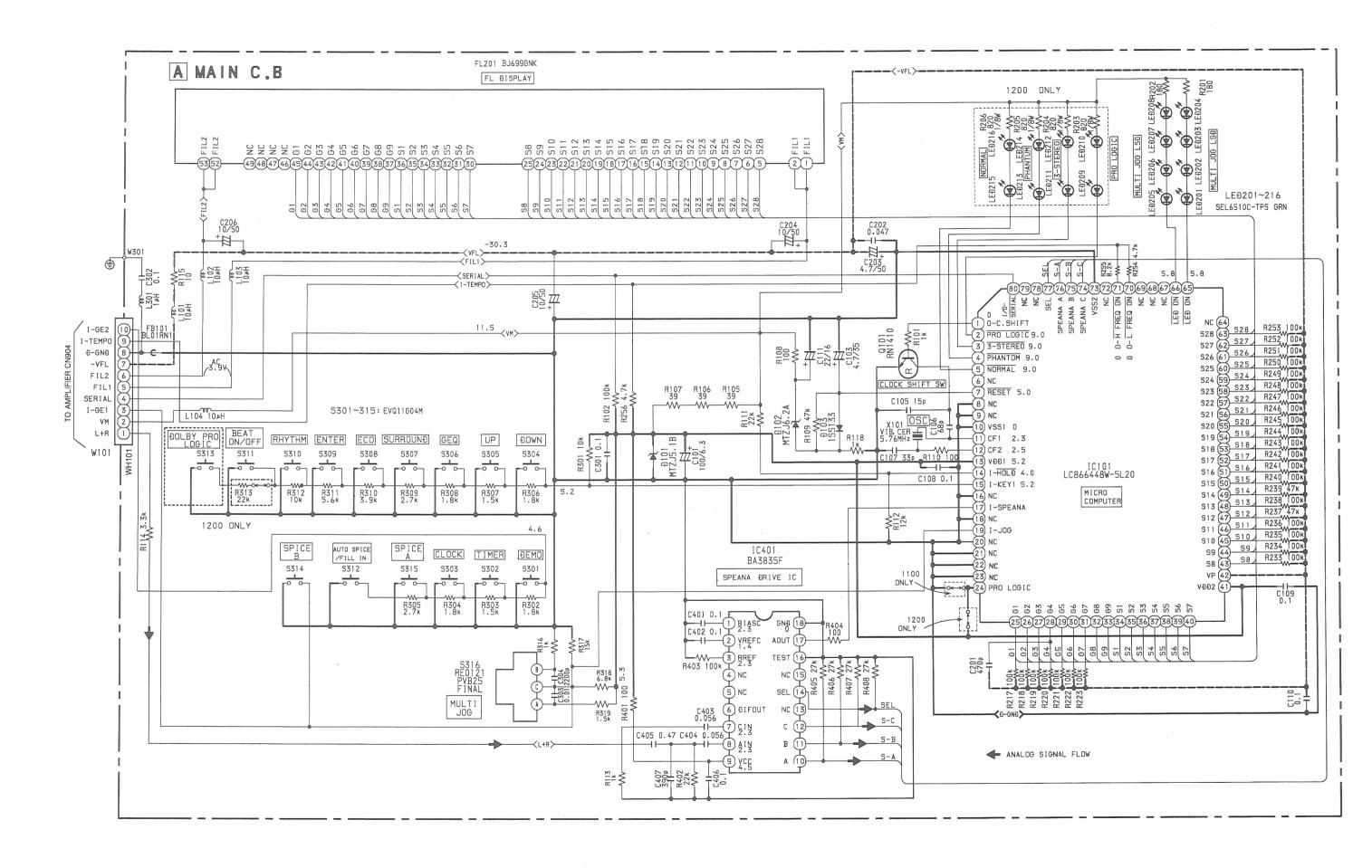
r(10) A

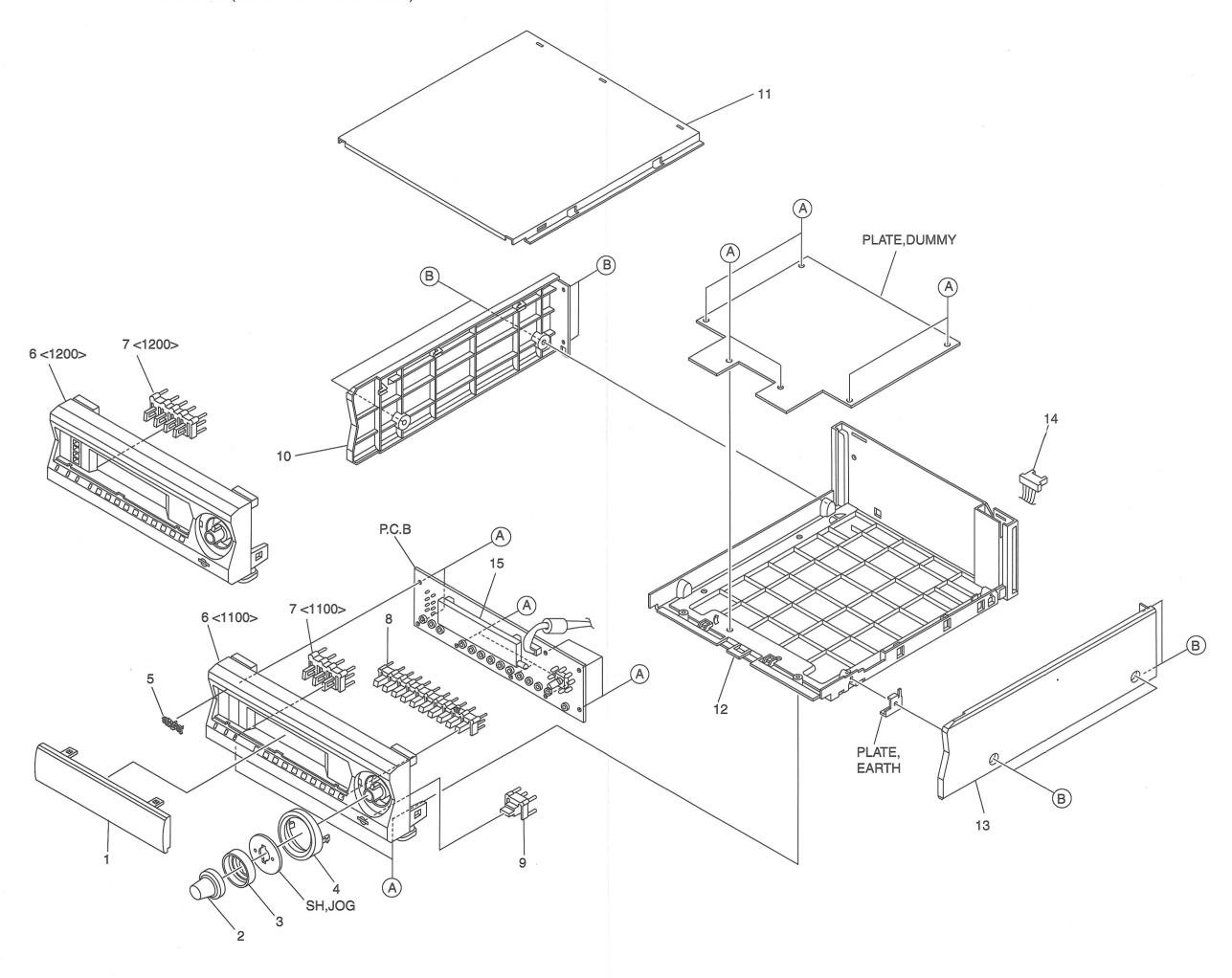
PEAK

HOLĐ

10.5KHZ

BPF





MECHANICAL PARTS LIST 1/1 (GE-NH1100/NAVH1200)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1 2 3 4 5	8Z-SU1-004-010 8Z-SU1-007-010 8Z-SU1-005-010 8Z-SU1-006-010 87-B00-002-010	KNOB, RT REFLECT RING, JO	RY JOG OR,JOG
7	8Z-SU1-001-010 8Z-SUM-001-010 8Z-SU1-009-010 8Z-SUM-004-010 8Z-SU1-008-010	CABI, FR KEY, DEM	PRO<1200> O<1100>
11	8Z-SU1-010-010 8Z-SX1-011-010 8Z-SU1-002-010 8Z-SU1-003-010 8Z-SU1-021-010	CABI, REA	IDE L
12	8Z-SUM-003-010 8Z-SUM-011-110 8Z-SX1-012-010 8Z-SU1-608-010 88-SU1-201-110	CABI, REA	305-101BLK
A B	87-067-703-010 87-067-633-010		SCREW, BVT2+3-10 SCREW, BVT2+3-8

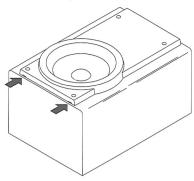
COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
В	Black	С	Cream	D	Orange
G	Green	Н	Gray	L	Blue
LT	Transparent Blue	N	Gold	Р	Pink
R	Red	S	Silver	ST	Titan Silver
Т	Brown	V	Violet	W	White
WT	Transparent White	Υ	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

SPEAKER DISASSEMBLY INSTRUCTIONS

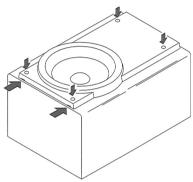
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



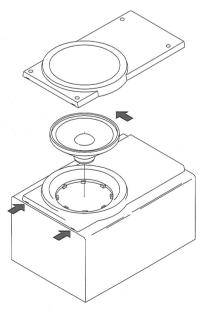
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

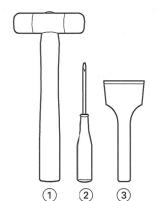


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4

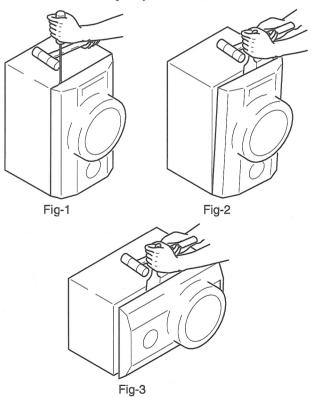


TOOLS

- (1) Plastic head hammer
- (○) flat head screwdriver
- 3 Cut chisel

How to Remove the PANEL, FR

- 1. Insert the (Θ) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (Θ) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
- 2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
- Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.



How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST SX-NAVH1200 (YBL, YTL, YJBL)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	Kanri No.	DESCRIPTION
1 2 3 4 5	88-NS5-610-010 8Z-SSM-006-010 8Z-SSM-001-010 8Z-SSM-003-010 8Z-SSM-007-010	CORD, SF PANEL,FR PANEL,FR PANEL,TW GRILLE,F	R L R
6 7 8 9 10	8Z-SSM-004-010 8Z-SSM-009-010 8Z-SSM-602-010 8Z-NSY-608-010 83-MS2-603-210	SPACER PROTECTE SPKR, W SPKR, CE SPKR,T 6	150 RAMIC ASSY
11	8Z-SSM-013-010	CABI, T <y< td=""><td>TL></td></y<>	TL>

SX-CR677 (YSTC, YJSTC)

NOTE: This SX-CR677 speaker contains SX-C607 (center speaker) and SX-R277 (rear speaker).

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	Kanri No.	DESCRIPTION
3 4	8Z-YS1-001-010 8Z-YS1-002-010 81-VSA-009-010 87-010-384-010 87-YS6-002-010	GRI COR CAP	I,REAR<277> LLE FRAME ASSY<277> D BUSH<277> ,E 100-25 SME<277> R, CORD Y<277>
9	8Z-YS1-601-010 87-YS7-012-010 87-YS7-013-010 87-YS3-003-010 83-NSM-010-010	PAN PAN GRI	R, 100<277> EL,FR S<607> EL,REAR S<607> LLE,FRAME ASSY<607> R, CORD<607>
11 12 13	81-VSA-009-010 87-YS7-602-010 8Z-YS2-911-010	SPK	D BUSH<607> R,100<607> YJ(ECA)Y

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	Kanri No.	DESCRIPTION	
1	8Z-SP1-906-010 8Z-SPM-906-010 8Z-SP1-905-010 8Z-SPM-905-010 8Z-SP1-901-010	IB,EZ IB,K(IB,K((9L)M<1100EZ> (9L)M<1200EZ> E)M<1100K> E)M<1200K> ECA)M<1100HR>	
1 2 2 3	8Z-SPM-901-010 8Z-NF5-702-010 8Z-NFV-702-010 87-006-225-010 87-043-095-010	IB,H(RC UN RC UN AM LO	ECA/MC1100HR> (IT, ZAS04<1100> (IT, ZAS05<1200> OP ANT NC2 <ez, k=""> ANTENNA<1100HR></ez,>	
4 4	87-006-269-010 87-043-106-010 87-043-115-010 87-A91-017-010	WIRE, ANT,F	OP ANT UN<1200HR> FM ANT (Z) <ez,k> EEDER FM<hr/> CONVERSION JT-0476</ez,k>	<hr/>

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION

REFERENCE NAME

ANT C-CAP C-CAP TN C-COIL

ANTENNAS CHIP CAP, CHIP CAP, CHIP TANTALUM COIL, CHIP

DIODE, CHIP DIODE, CHIP FET, CHIP C-DIODE C-FET FILTER, CHIP JACK, CHIP C-FOTR C-JACK

C-LED C-RES C-SFR C-SLIDE SW C-SW

LED, CHIP RES, CHIP SFR, CHIP SLIDE SWITCH, CHIP SWITCH, CHIP

C-VR C-ZENER CAP, CER CAP, E

TRANSISTOR, CHIP VOLUME, CHIP ZENER, CHIP CAP, CERA-SOL CAP, ELECT

CAP, M/F CAP, TC CAP, TC-U CAP, TN **CERA FIL** CF DL

CAP, FILM CAP, CERA-SOL CAP, CERA-SOL SS CAP, TANTALUM FILTER, CERAMIC

E/CAP FILT FLTR **FUSE RES** FILTER, CERAMIC DELAY LINE CAP, ELECT FILTER **FILTER**

P-DIODE P-SNSR P-TR

RES, FUSE MOTOR PHOTO DIODE PHOTO SENSER PHOTO TRANSISTOR

POLY VARI **PPCAP** PT PTR, RES RC

VARIABLE CAPACITOR CAP, PP POWER TRANSFORMER PTR, MELF REMOTE CONTROLLER

RES NF RESO SHLD SOL SPKR

RES, NON-FLAMMABLE RESONATOR SHIELD

SW, LVR SW, RTRY SW, SL

SOLENOID SPEAKER SWITCH, LEVER SWITCH, ROTARY SWITCH, SLIDE CAP, CERA-SOL

TC CAP THMS TRIMER

TUN-CAP

VIB, CER VIB, XTAL

TRANSISTOR CAP, TRIMMER VARIABLE CAPACITOR RESONATOR, CERAMIC RESONATOR, CRYSTAL

۷R **ZENER** VOLUME DIODE, ZENER

THERMISTOR

MECHANICAL SECTION

DESCRIPTION **ADHESHIVE** BAR-ANT BAT **BATT**

SHEET ADHESHIVE AZIMUTH BAR-ANTENNA BATTERY BATTERY

REFERENCE NAME

BRG BTN CAB CASS CHAS

CHASSIS COLLAR CONTROL CURSOR CUSHION CUSHION

BEARING

BUTTON

CABINET

CASSETTE

DIR DUBB FL FLY-WHL FR

CLR

CU

CONT

CRSR

CUSH

DIRECTION DUBBING FRONT LOADING **FLYWHEEL FRONT**

FUNCTION

G-CUSHION

FUN G-CU HDL HIMERON HINGE, BAT

HANDOL CLOTH HINGE, BATTERY

HLDR HT-SINK ΙB IDLE IND, L-R

HOLDER HEAT SINK INSTRUCTION BOOKLET INDICATOR, L-R

KEY, CONT KEY, PRGM KNOB, SL I BI LID, BATT

KEY, CONTROL KEY, PROGRAM KNÓB, SLIDE LABEL LID, BATTERY

LID, CASS LVŔ P-SP PANEL, CONT PANEL, FR LID, CASSETTE LEVER P-SPRING PANEL, CONTROL PANEL, FRONT

PRGM PULLY, LOAD MO RBN S-ŠEG

PROGRAM PULLY, LOAD MOTOR RIBBON SPECIAL SEGMENT

SHLD-SH SL SP SP-SCREW

SHEET SHIELD-SHEET SLIDE **SPRING** SPECIAL-SCREW

SPACER, BAT SPR-P

SPACER, BATTERY SPRING P-SPRING

SPR-PC-PUSH T-SP

P-SPRING, C-PUSH T-SPRING

TERM **TRIG** TUN VOL W

TERMINAL TRIGGER THNING VOLUME WASHER

WORM-WHL

WHEEL WORM-WHEEL

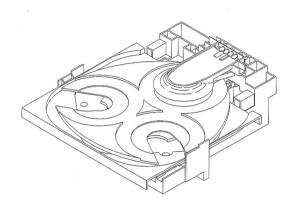
サービス技術ニュース 番号 連絡内容 G-G G

アイワ株式会社 AIWA CO.,LTD.

9820543, 9820572, 9630472, 931261

Tokyo Japan





SERVICE MANUAL

CD MECHANISM

BASIC CD MECHANISM:

KSM-2131FAM 3ZG-2 E1 3ZG-2 E3 3ZG-2 E4

TYPE	BASIC CD MECHANISM
Z3NDSH	3ZG-2 E1
Z3RDLSHJ	3ZG-2 E3
Z3RNDSHJ	3ZG-2 E1
Z3RNDSH	3ZG-2 E1
Z3RNSMDJ	3ZG-2 E1
Z3RSHMDJ	3ZG-2 E3
PZ3MD	3ZG-2 E4
Z4RNDSH	KSM-2131 FAM
Z4RNSHMDJ	KSM-2131 FAM



PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynling laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

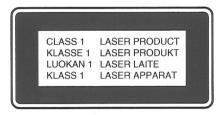
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

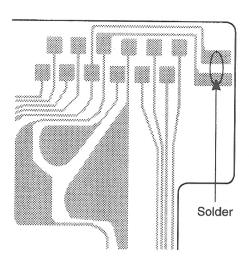


Precaution to replace Optical block (KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

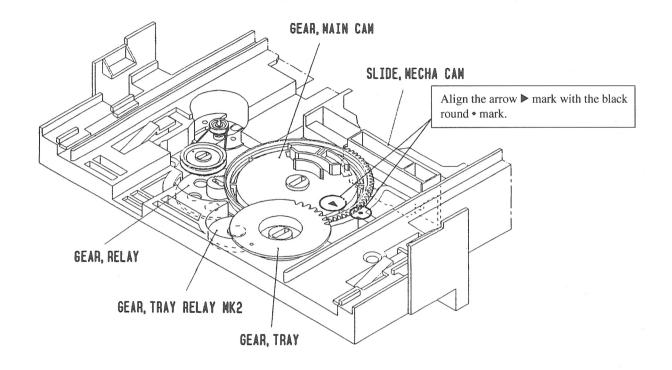
PICK-UP Assy P.C.B



How to Adjust the Rotating Phase of the Gear, Main Cam

- 1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
- 2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
- 3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

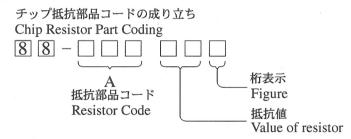
REF. NO	PART NO.	KANRI	DESCRIPTION	idiy Telef to	REF. NO	PART NO.	KANF	LI DESCRIPTION
IC		NO.			C102	87-016-081-08	NO.	
					C102	87-010-081-08		C-CAP,S 0.1-16 RK C-CAP,S 82P-50 CH
	87-A20-446-010		LA9241ML		C104	87-012-154-02	20	C-CAP,S 150P-50 J CH GRM
	87-A20-459-010 87-A20-445-010		LC78622ED		C105	87-010-196-02		C-CAP, S 0.1-25 Z F GRM
	07-A20-445-010		DSH,Z4RNSHMDJ,Z3RN	SMDJ.PZ3MD>	C109	87-010-197-02	20	C-CAP,S 0.01-25 B
	88-NF9-621-010) IC,BA	.5936S		C111	87-010-312-02	20	C-CAP,S 15P-50 J CH
		<z3ndsi< td=""><td>H,Z3RDLSHJ,Z3RNDSH</td><td>J,Z3RNDSHM></td><td>C112</td><td>87-010-154-02</td><td>20</td><td>C-CAP,S 10P-50 CH</td></z3ndsi<>	H,Z3RDLSHJ,Z3RNDSH	J,Z3RNDSHM>	C112	87-010-154-02	20	C-CAP,S 10P-50 CH
					C113	87-010-322-02		C-CAP,S 100P-50 CH
TRANSIST	OR				C115 C116	87-010-404-08 87-010-196-02		CAP, ELECT 4.7-50V C-CAP,S 0.1-25 Z F GRM
	00 112 105 00	0						3 dia / 5 di 1 di
	89-113-187-080 87-026-609-080	,	A1318TU <z3rnsmdj, e<br="">A1266GR</z3rnsmdj,>	Z3MD>	C117 C118	87-010-263-04 87-010-178-02		CAP, E 100-10
	0. 020 005 000	, 110,101	<pre><except pre="" z3rn<=""></except></pre>	SMDJ.PZ3MD>	C118	87-010-178-02		C-CAP,S 1000P-50 B C-CAP,S 10P-50 CH
	87-026-295-080		C144TK		C121	87-010-403-08		CAP, ELECT 3.3-50V
	87-A30-076-080		2SC3052F	IOTO T	C122	87-010-403-08		CAP, ELECT 3.3-50V
	89-406-554-580	TR, 25	D655DE <except td="" z4rn<=""><td>ISHMDU></td><td>C123</td><td>87-012-157-02</td><td>.0</td><td>C_CAD C 220D E0 CH</td></except>	ISHMDU>	C123	87-012-157-02	.0	C_CAD C 220D E0 CH
	87-A30-047-080		D655E <z4rnshmdj></z4rnshmdj>		C124	87-012-157-02		C-CAP,S 330P-50 CH C-CAP,S 330P-50 CH
	87-A30-073-080		RT1N 141C <z3rdlshj< td=""><td>,PZ3MD></td><td>C131</td><td>87-010-382-08</td><td></td><td>CAP, ELECT 22-25V</td></z3rdlshj<>	,PZ3MD>	C131	87-010-382-08		CAP, ELECT 22-25V
	87-A30-075-080	C-TR,	2SA1235F		C191	87-010-263-04		CAP,E 100-10
					C301	87-010-196-02	0	C-CAP,S 0.1-25 Z F GRM
DIODE					C302	87-010-382-08	0	CAP, ELECT 22-25V
	07_3/0 =07 000	DTOD-	100122 - 012		C303	87-010-260-04	0	CAP,E 47-25 SME
	87-A40-527-080 87-020-465-080		,1SS133 T-91S ,1SS133 (110MA)		C501 C502	87-A10-730-08		CAP, E 1000-16 SMG
	0, 020 105 000	DIODE,		CEPT PZ3MD>	C502	87-010-197-02 87-010-196-02		C-CAP,S 0.01-25 B C-CAP,S 0.1-25 Z F GRM
	87-A40-470-080	DIODE,	,1SS254 <pz3md></pz3md>					0 0111,0 011 10 11 11 0101
					C505	87-010-196-02		C-CAP,S 0.1-25 Z F GRM
3CD C.B					C506 C507	87-010-196-02 87-010-196-02		C-CAP,S 0.1-25 Z F GRM C-CAP,S 0.1-25 Z F GRM
					C509	87-010-196-02		C-CAP,S 0.1-25 Z F GRM
C11 C12	87-012-393-080		,S 0.22-16 R K		C510	87-010-196-02		C-CAP,S 0.1-25 Z F GRM
C12	87-012-157-020 87-016-369-080		S 330P-50 CH S 0.033-25 B K		C603	87-010-196-02	٥	C CAD C A 1 OF F F CDM
C14	87-A10-201-080	,	,S0.33-16 KB		C610	87-010-196-02		C-CAP,S 0.1-25 Z F GRM CAP, ELECT 10-50V
C15	87-010-213-020	C-CAP,	S 0.015-25 B		C611	87-010-405-08		CAP, ELECT 10-50V
C16	87-016-083-080	C-CAD	S 0.15-16 RK		C701	87-010-405-04		CAP,E 10-50
C17	87-010-184-020		S 3300P-50 B		C705	87-010-197-02	0	C-CAP,S 0.01-25 B
C18	87-016-083-080		S 0.15-16 RK		C706	87-010-196-02	0	C-CAP,S 0.1-25 Z F GRM
C19	87-010-198-020		S 0.022-25 B <exce< td=""><td></td><td>C707</td><td>87-010-196-02</td><td></td><td>C-CAP,S 0.1-25 Z F GRM</td></exce<>		C707	87-010-196-02		C-CAP,S 0.1-25 Z F GRM
C19	87-016-369-080	C-CAP,	S 0.033-25 B K <pz< td=""><td>3MD></td><td>C711</td><td>87-010-322-02</td><td></td><td>C-CAP,S 100P-50 CH</td></pz<>	3MD>	C711	87-010-322-02		C-CAP,S 100P-50 CH
C20	87-010-178-020	C-CAP,	S 1000P-50 B		C712 C713	87-010-322-02 87-010-322-02		C-CAP,S 100P-50 CH C-CAP,S 100P-50 CH
C21	87-012-393-080	C-CAP,	S 0.22-16 R K		0,10	0, 010 522 02		c car, b roor so ch
C22	87-016-083-080		S 0.15-16 RK		C901	87-010-260-08		CAP, ELECT 47-25V
C23 C24	87-010-197-020 87-010-186-020		S 0.01-25 B S 4700P-50 B		C902 CON3	87-010-196-02		C-CAP,S 0.1-25 Z F GRM
	0, 010 100 020	C CHI,	5 47001-30 В		CON3	84-ZG1-648-01 87-099-199-01		CONN ASSY,6P <z4rndsh,z4rnshmdj> CONN,6P 6216 H</z4rndsh,z4rnshmdj>
C25	87-010-400-040		0.47-50					<pre><except z4rndsh,z4rnshmdj=""></except></pre>
C26 C27	87-010-322-020 87-010-382-040		S 100P-50 CH 22-25 SME		CON4	87-099-212-01	0 (CONN, 5P 6216 V
C28	87-010-545-040		0.22-50 SME		CON5	87-099-199-01	0 (CONN, 6P 6216 H
C29	87-010-184-020		S 3300P-50 B		CON6	87-099-030-01		CONN, 13P 6216H
C31	87-010-186-020	0.010	G 4700D F0 D		CON8	87-A60-248-01	0 (CONN,16P H CFF1416
C32	87-010-186-020		S 4700P-50 B S 27P-50 CH <excep< td=""><td>r pasmo</td><td>CON8</td><td>87-A60-429-01</td><td>n (</td><td><z4rndsh,z4rnshmdj> CONN,16P H TOC-A</z4rndsh,z4rnshmdj></td></excep<>	r pasmo	CON8	87-A60-429-01	n (<z4rndsh,z4rnshmdj> CONN,16P H TOC-A</z4rndsh,z4rnshmdj>
C32	87-010-312-080		S 15P-50 CH <pz3md< td=""><td></td><td>CONO</td><td>07-A00-429-01</td><td>0 (</td><td><pre>CONN, 16P H TOC-A <except z4rndsh,="" z4rnshmdj=""></except></pre></td></pz3md<>		CONO	07-A00-429-01	0 (<pre>CONN, 16P H TOC-A <except z4rndsh,="" z4rnshmdj=""></except></pre>
C33	87-016-081-080		S 0.1-16 RK		CON9	87-009-345-01	0 (CONN, 2P PH H
C35	87-010-196-020	C-CAP,	S 0.1-25 Z F GRM					<z4rnshmdj,z3rnsmdj,pz3md></z4rnshmdj,z3rnsmdj,pz3md>
C37	87-010-405-080	CAP, E	LECT 10-50V		FC1	85-NFT-611-11	ו ה	FF-CABLE 16P-1.0
C38	87-010-263-080		LECT 100-10V		FC4	84-ZG1-672-01		F-CABLE, 5P 1.25 210MM WHITE N
	87-010-596-020 87-010-401-080		S 0.047-16 RK		FC5	84-ZG1-630-01) (CABLE FFC 6P-1.25
	87-010-401-080	CAP, E.	LECT 1-50V		L11	87-005-602-080	١ (<pre><except z4rndsh,="" z4rnshmdj=""></except></pre>
		0.127 0	1 10		L101	87-005-614-080		COIL,10UH LAV35 J COIL 100UH LAV35 J
	87-010-263-080		LECT 100-10V					1000 MINOS 0
	87-010-197-020 87-010-263-080		S 0.01-25 B LECT 100-10V		L102	87-005-602-080		COIL,10UH LAV35 J
	87-010-263-080		S 0.1-25 Z F GRM		L902	87-A50-189-080) (C-COIL, S BLM21B272S <z4rnshmdj, pz3md="" z3rnsmdj,=""></z4rnshmdj,>
	87-010-260-080		LECT 47-25V		LED901	87-A40-558-010) I	LED, SLZ-8128A-01-A <except pz3md=""></except>
~10	07_010 100 000	0.035	0 0 1 05 5 5 5		LED901	87-A40-123-010) [LED, SLZ-8128A-01-B <pz3md></pz3md>
	87-010-196-020 87-010-404-080		S 0.1-25 Z F GRM LECT 4.7-50V		M601	87-045-305-010) 1	MOTOR, RF-500TB DC-5V (2MA)
	87-010-197-020		S 0.01-25 B		R50	88-118-124-020) (C-RES,S 120K-1/10W J
	87-010-263-040	CAP, E	100-10					<pre> <except pz3md=""> </except></pre>
C52	87-012-156-080	C-CAP,	S 220P-50 CH		R51	88-118-124-020) (C-RES,S 120K-1/10W J
C101	87-016-369-020	C-CAP.S	S 0.033-25 В К					<except pz3md=""></except>

REF. NO	PART NO.	KANRI DESCRIPTION NO.		REF. NO	PART NO.	KANRI NO.	DESCRIPTION
R52	88-118-124-020	C-RES,S 120K-1/10W	J <except pz3md=""></except>	DRIVE C.E	3 <except td="" z4rnd<=""><td>SH, Z4RNS</td><td>SHMDJ></td></except>	SH, Z4RNS	SHMDJ>
R53	88-118-124-020	C-RES,S 120K-1/10W		M1	87-045-358-0	10 MC	OT,RF-310TA 43 <except z4rndsh,z4rnshmdj=""></except>
SFR101 SW701	87-A90-787-080 87-036-109-010	SFR,100K H HOKU PUSH SWITCH	ancer results	M2	87-045-356-0	10 MC	OT,RF-310TA 30 <except z4rndsh,z4rnshmdj=""></except>
SW702	87-036-109-010	PUSH SWITCH		SW1	87-A90-042-0	10 SW	J,MSW-17310MVPO <except z4rndsh,z4rnshmdj=""></except>
X101	87-A70-046-010	VIB,XTAL 16.934MHZ					
יבים כי פיי	Z3RDLSHJ,PZ3MD>			MOTOR C.E	3 <z4rndsh,z4rn< td=""><td>SHMDJ></td><td></td></z4rndsh,z4rn<>	SHMDJ>	
DED C.D<.	ZUMDOMO, FZUMD>			M2	9X-262-513-2	10 91	ED MOTOR <z4rndsh,z4rnshmdj></z4rndsh,z4rnshmdj>
LED701	87-A40-316-080	LED, SLR-56PCT31 GRN	< P7.3MD>	PIN3	91-564-722-1		NNECTOR 6P <z4rndsh,z4rnshmdj></z4rndsh,z4rnshmdj>
LED702	87-A40-316-080	LED, SLR-56PCT31 GRN		SW1	91-572-085-1		CAF SW <z4rndsh,z4rnshmdj></z4rndsh,z4rnshmdj>
LED702	87-A40-268-080	LED, SLH-56DCT31 ORN		ONI	31 372 003 I		En SW (24100DII) 24100IIIDO
LED703	87-A40-268-080	LED, SLH-56DCT31 ORN					
LED704	87-A40-316-080	LED, SLR-56PCT31 GRN					
T-T C.B							
C401	87-A11-148-080	CAP.TC U 0.1-50 Z F					
CON401	86-NFZ-675-010	CONN.5P H 6216-11H					
M401	87-045-364-010	MOTOR (BCH3B14)					
PS401	87-026-573-010	IC,GP1S53V					
		<z4rndsh,z4rnshmdj,z< td=""><td>3RNSMDJ, PZ3MD></td><td></td><td></td><td></td><td></td></z4rndsh,z4rnshmdj,z<>	3RNSMDJ, PZ3MD>				
PS401	88-NF9-627-010	SNSR, SG-240					
		<z3ndsh,z3rdlshj,z3r< td=""><td>NDSHJ, Z3RNDSHM></td><td></td><td></td><td></td><td></td></z3ndsh,z3rdlshj,z3r<>	NDSHJ, Z3RNDSHM>				

• Regarding connectors, they are not stocked as they are not the initial order items.

The connectors are available after they are supplied from connector manufacturers upon the order is received.

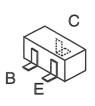
Oチップ抵抗部品コード/CHIP RESISTOR PART CODE



チップ抵抗 Chip resistor

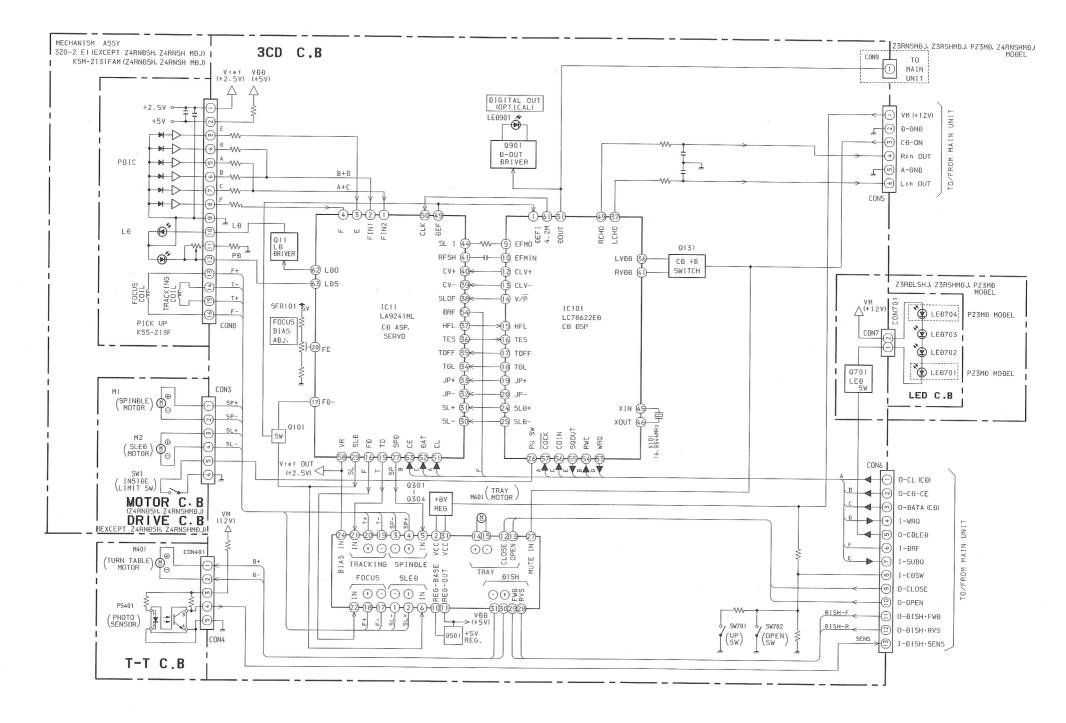
容量	種類	許容誤差	記号	寸法/Dimensions (mm)				抵抗コード : A
Wattage	Type	Tolerance	Symbol	bol 外形/Form	L	W	t	Resistor Code : A
1/16W	1005	± 5%	CJ	L	1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	. 118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

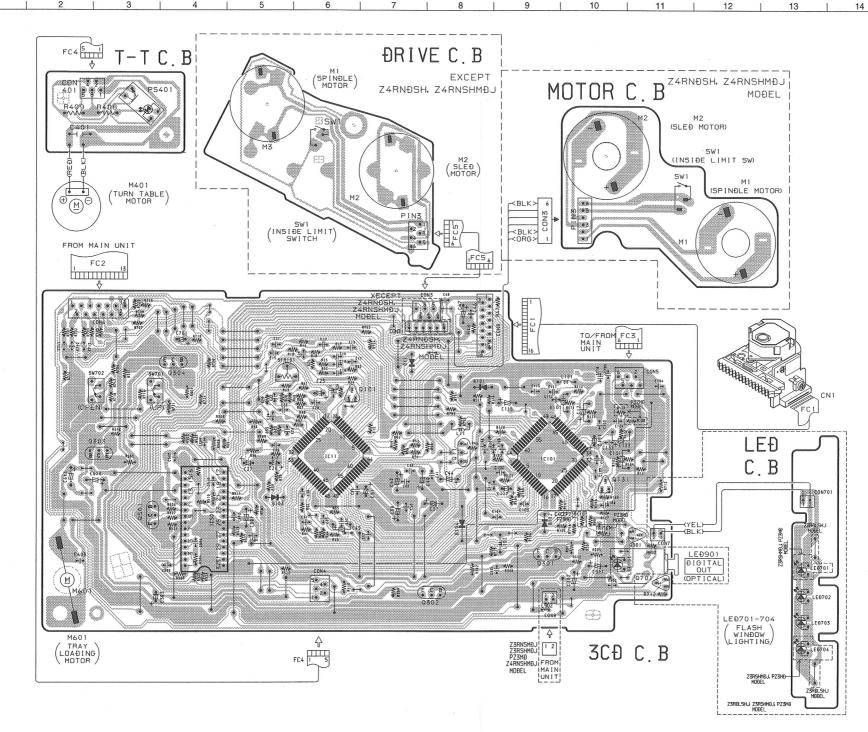
TRANSISTOR ILLUSTRATION

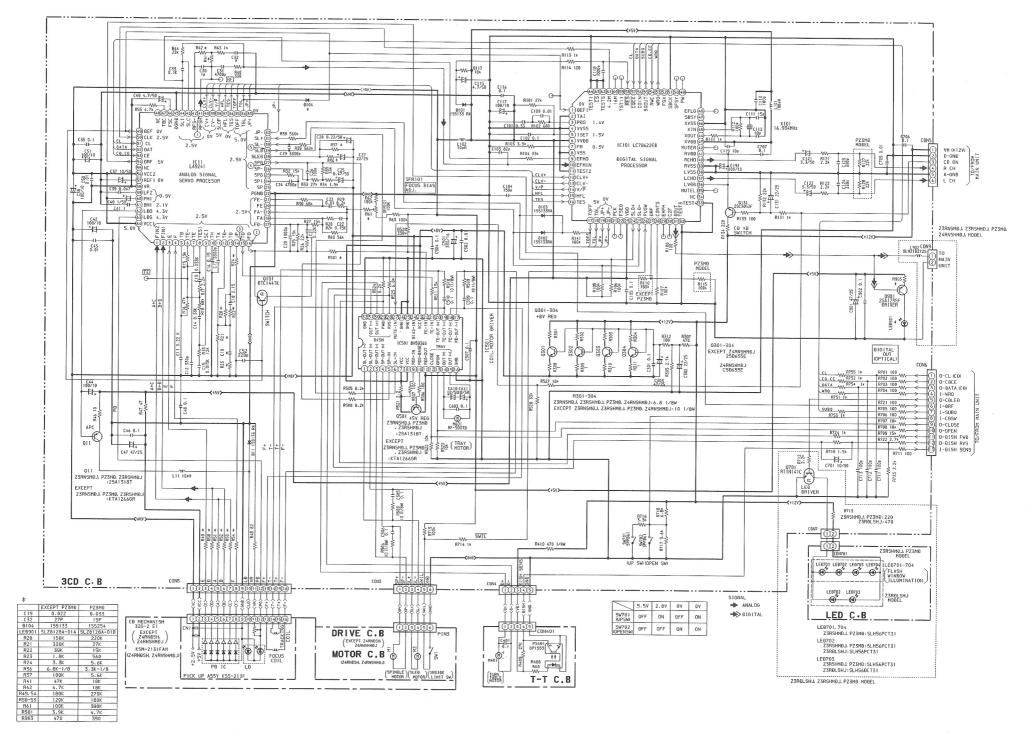




2SA1235 2SC3052 DTC144TK 2SD655 KTA1266







WAVE FORM

1 IC11 Pin 4 (RFSM)

IC11 Pin (6) (FD)

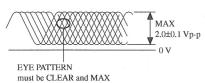
VOLT/DIV: 0.5V TIME/DIV: 1µS

(4)

) IC11 Pin @ (SPD)

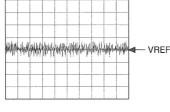
VOLT/DIV: 100mV TIME/DIV: 1mS

VOLT/DIV: 200mV



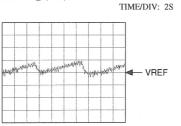
Vp-p

VOLT/DIV: 100mV TIME/DIV: 1mS



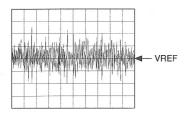
VREF

5 IC11 Pin 29 (SLD)

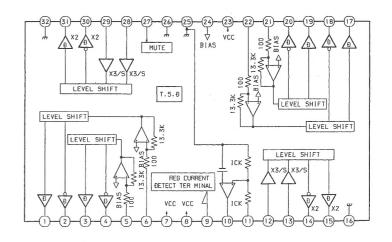


3 IC11 Pin (5) (TO)

VOLT/DIV: 100mV TIME/DIV: 1mS



IC BLOCK DIAGRAM IC, BA5936



IC DESCRIPTION IC, LA9241M

Pin No.	Pin Name	I/O	Description	
1	FIN2	I	Pin to which external pickup photo diode is connected. RF signal is created by adding	
			with the FIN1 pin signal. FE signal is created by subtracting from the FIN1 pin signal	
2	FIN1	I	Pin to which external pickup photo diode is connected.	
3	3 E	I	Pin to which external pickup photo diode is connected. TE signal is created by	
	_	1	subtracting from the F pin signal.	
4	F	I	Pin to which external pickup photo diode is connected.	
5	TB	I	DC component of the TE signal is input.	
6	TE-	I	Pin to which external resistor setting the TE signal gain is connected between the TE pin.	
7	TE	0	TE signal output pin.	
8	TESI	I	TES "Track Error Sense" comparator input pin. TE signal is passed through a band-	
	1231	1	pass filter then input.	
9	SCI	I	Shock detection signal input pin.	
10	TH	I	Tracking gain time constant setting pin.	
11	TA	0	TA amplifier output pin.	
12	TD-	I	Pin to which external tracking phase compensation constants are connected between	
12	1D-	1	the TD and VR pins.	
13	TD	I	Tracking phase compensation setting pin.	
14	JP	I	Tracking jump signal (kick pulse) amplitude setting pin.	
15	ТО	0	Tracking control signal output pin.	
16	FD	0	Focusing control signal output pin.	
17	ED	T .	Pin to which external focusing phase compensation constants are connected between	
17	FD-	I	the FD and FA pins.	
18	FA	T	Pin to which external focusing phase compensation constants are connected between	
16	гА	I	the FD- and FA- pins.	
19	ΕA	7	Pin to which external focusing phase compensation constants are connected between	
19	FA-	I	the FA and FE pins.	
20	FE	0	FE signal output pin.	
21	FE-	I	Pin to which external FE signal gain setting resistor is connected between the FE pin.	
22	AGND	_	Analog signal GND.	
23	NC	_	No connection.	
24	SP	0	Single ended output of the CV+ and CV- pin input signal.	
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.	
26	an.		Pin to which external spindle phase compensation constants are connected together	
26	SP–	I	with SPD pin.	
27	SPD	0	Spindle control signal output pin.	
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.	
29	SLD	0	Sled control signal output pin.	
30, 31	SL-, SL+	I	Sled advance signal input pin from microprocessor.	
32, 33	JP-, JP+	I	Tracking jump signal input pin from DSP.	
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.	
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.	

Pin No.	Pin Name	I/O	Description
36	TES	0	Pin from which TES signal is output to DSP.
37	HFL	0	"High Frequency Level" is used to judge whether the main beam position is on top of
37	III L		bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV-, CV+	I	CLV error signal input pin from DSP.
41	RFSM	0	RF output pin.
42	RFS-	I	RF gain setting and EFM signal 3T compensation constant setting pin together with RFSM pin.
43	SLC	0	"Slice Level Control" is the output pin which controls the RF signal data slice level by DSP.
44	SLI	I	Input pin which control the data slice level by the DSP.
45	DGND	_	Digital system GND.
46	FSC	0	Output pin to which external focus search smoothing capacitor is connected.
47	TBC	I	"Tracking Balance Control" EF balance variable range setting pin.
48	NC	_	No connection.
49	DEF	0	Disc defect detector output pin.
50	CLK	I	Reference clock input pin. 4.23 MHz of the DSP is input.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	0	"Detect RF" RF level detector output.
55	FSS	I	"Focus Search Select" focus search mode (± search/+ search) select pin.
56	VCC2	_	Servo system and digital system Vcc pin.
57	REFI	_	Pin to which external bypass capacitor for reference voltage is connected.
58	VR	0	Reference voltage output pin.
59	LF2	I	Disc defect detector time constant setting pin.
60	PH1	I	Pin to which external capacitor for RF signal peak holding is connected.
61	BH1	I	Pin to which external capacitor for RF signal bottom holding is connected.
62	LDD	0	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1	_	RF system Vcc pin.

IC, LC78622ED

Pin No.	Pin Name	I/O	Description			
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).			nnect to 0V when not used).
2	TAI	I		Test signal input pin with built-in pull-down res		-in pull-down resistor. Be sure to connect to 0V.
3	PDO	0		Phase comparator output pin to control external VCO.		
4	VVSS		For DLI	GND pin for built-in VCO. Be sure to connect to 0V.		
5	ISET	I	For PLL.	Pin to which external resistor adjusting the PD0 output current.		
6	VVDD			Power sup	ply pin for built-i	n VCO.
7	FR	I		Pin for VCO frequency range adjustment.		
8	VSS	-	Digital syst	em GND. Be	e sure to connect t	to 0V.
9	EFMO	0	Ear alian las	vol control	EFM signal or	utput pin.
10	EFMIN	I	For slice lev	vei controi.	EFM signal in	put pin.
11	TEST2	I	Test signal	input pin witl	n built-in pull-dov	wn resistor. Be sure to connect to 0V.
12, 13	CLV+, CLV-	0	Disc motor	control outpu	it. Three level ou	tput is possible using command.
14	V/P	0	Rough serve		ntrol automatic se	election monitoring output pin. Rough servo
15	HFL	I	Track detec	t signal input	pin. Schmidt inp	out.
16	TES	I	Tracking er	ror signal inp	ut pin. Schmidt i	nput.
17	TOFF	0	Tracking Ol	FF output pin		
18	TGL	0	Tracking ga	in selection o	output pin. Gain b	poost at L.
19, 20	JP+, JP-	0	Track jump control signal output pin. Three level output is possible using command.			ee level output is possible using command.
21	PCK	0	EFM data p	layback clock	monitoring pin	4.3218 MHz when phase is locked in.
22	FSEQ	0	Sync signal detection output pin. H when the sync signal which is detected from EFM			
						ly generated agree.
23	VDD	_	Digital syste	Digital system power supply pin.		
24-28	SL+ - PUIN	I/O	General purpose input/output pin 1 to 5. the pin is not used, set the pin to the input terminal and connect to 0V, or alternate set the pin to output terminal and leave		The pin is controlled by the serial data command from microprocessor. When the pin is not used, set the pin to the input terminal and connect to 0V, or alternately set the pin to output terminal and leave the pin open.	
29	ЕМРН	0	De-emphasi	s monitor out	put pin. De-empl	hasis disc is being played back at H.
30	C2F	0	C2 flag outp	out pin.		
31	DOUT	0	DIGITAL O	UT output pi	n. (EIAJ format)	
32, 33	TEST3, TEST4	I	Test signal i	nput pin with	built-in pull-dow	on resistor. Be sure to connect to 0V.
34	N.C.	_	Not used. S	et the pin to o	open.	
35	MUTEL	0			L-channel mut	te output pin.
36	LVDD		L-channel 1-	bit DAC	L-channel power supply pin.	
37	LCHO	0	L-chamici 1-	oli DAC.	L-channel outp	out pin.
38	LVSS				L-channel GN	D. Be sure to connect to 0V.
39	RVSS				R-channel GN	D. Be sure to connect to 0V.
40	RCHO	0	R-channel 1-	bit DAC	R-channel outp	put pin.
41	RVDD		K-CHAIIICI I	OIL DAC.	R-channel pow	ver supply pin.
42	MUTER	0			R-channel mute output pin.	

Pin No.	Pin Name	I/O	Description	
43	XVDD		Crystal oscillator power supply pin.	
44	XOUT	0	Pin to which external 16.9344 MHz crystal oscillator is connected.	
45	XIN	I	Three which external 10.9944 Will'z crystal oscillator is connected.	
46	XVSS		Crystal oscillator GND pin. Be sure to connect to 0V.	
47	SBSY	0	Subcode block sync signal output pin.	
48	EFLG	0	C1, C2, single and dual correction monitoring pin.	
49	PW	0	Subcode P, Q, R, S, T, U and W output pin.	
50	SFSY	0	Subcode frame sync signal output pin. Falls down when subcode enters standby.	
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connected to 0V when not in	
31	SBCK	1	use.)	
52	FSX	0	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of	
32	rsx		crystal oscillator.	
53	WRQ	0	Subcode Q output standby output pin.	
54	RWC	I	Read/write control input pin. Schmidt input.	
55	SQOUT	0	Subcode Q output pin.	
56	COIN	I	Command input pin from microprocessor.	
57	CQCK	I	Command input read clock or subcode read input clock from SQOUT pin	
58	RES	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.	
59	TST11	0	Test signal output pin. Use this pin as open (normally L output).	
60	16M	0	16.9344 MHz output pin.	
61	4.2M	0	4.2336 MHz output pin.	
62	TEST5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
(2)	CS	I	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V	
63	CS	1	while it is not controlling.	
64	TEST1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.	

Note: The same potential must be applied to the respective power supply terminals. (VDD, VVDD, LVDD, RVDD, XVDD)

TEST MODE

- How to Activate CD Test Mode
 Insert the AC plug while pressing the function CD button.
 All FL display tubes will light up, and the test mode will be activated.
- How to Cancel CD Test Mode Either one of the following operations will cancel the CD test mode.
- Press the function button.
 Press the power switch button.
 (except CD function button)
 Disconnect the AC plug

3. CD Test Mode Functions

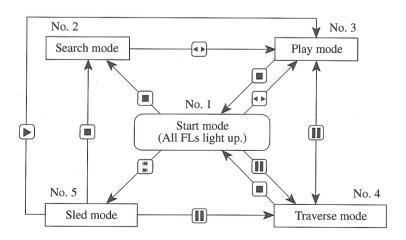
When test mode is activated, the following mode functions from No.1 to No.5 can be used by pressing the operation keys.

Mode/No.	Operation	FL display	Operation	Contents
Start mode	Activation	All lamps light	Test mode is activated.	• FL display check (All displays light.)
No.1			CD block power is ON.	,
Search mode	■ key	<u> </u>	Laser diode turns always ON. Continual focus search (The pickup lens repeats the full-swing up-down motion.) Avoid continual searches that last for more than 10 minutes.	APC circuit check Laser current measurement (Laser current control. Across a resistor connected between emitter and GND.) FOCUS SERVO Check focus search waveform Check focus error waveform (FOK/FZC are not monitored in the
No.2			* NOTE 1	search mode)
Play mode	⋖ ▶ key	,-,,	Normal playback	FOCUS SERVO/TRACKING SERVO
			Focus search is continued if TOC	CLV SERVO/SLED SERVO
No.3		<u> </u>	cannot be read. * NOTE 1	Check DRF
Traverse mode	III key		During normal disc playback	TRACKING SERVO ON/OFF
		$I^{-}I^{-}I$	Press once; tracking servo OFF	Tracking balance (traverse) check
		<u> </u>	Press twice; tracking servo ON	
No.4			* NOTE 2	
Sled mode	₩ key	All lamps light	Pickup moves to the outermost track	SLED SERVO
	₩		Pickup moves to the innermost track	Check SLED mechanism operation
2			* NOTE 3	
			(During playback, machine operates	
No.5			normally.)	

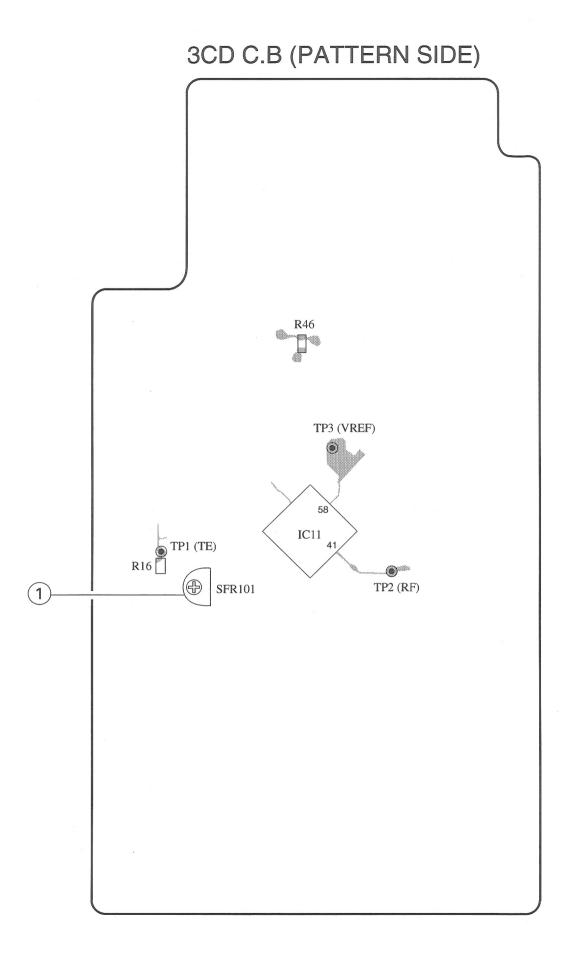
- * NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.
- * NOTE 2: Do not press the M or M keys when the machine is in the status is active. If they are pressed, playback will not be possible after the status has been canceled. If the M or M keys are pressed in the status, press the key and return to the start mode (No.1).
- * NOTE 3: When pressing the M or M keys, take care to avoid damage to the gears. Because the sled motor is activated when the M or M keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline

The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.

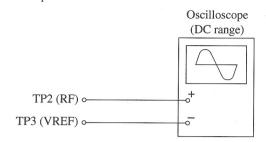


If the DISC DIRECT PLAY button is pressed, the machine performs the same operation as the PLAY button is pressed as shown. If the tray is opened by pressing OPEN/CLOSE button during Play mode or Traverse mode, the machine returns to the Start mode.

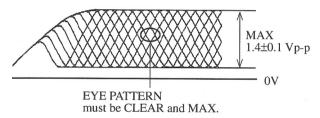


Note: • Connect a probe (10: 1) of the oscilloscope test point for adjustment.

- Connect ground (⊖) terminal of oscilloscope probe to TP3 (VREF) for all adjustment.
- Focus Bias Adjustment
 Make the focus bias adjustment when replacing and repairing
 the optical block.



- Connect an oscilloscope to test points TP2 (RF) and TP3 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second program.
- 4) Adjust SFR101 so that RF signal of the test point TP2 (RF) is MAX and CLEARREST.



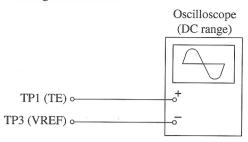
VOLT/DIV: 0.5V TIME/DIV: 0.5μS

Note: The current of the laser signal can be checked with the voltages on both sides of R46 (voltage across 10Ω). The difference for the specified value shown on the label must be within \pm 6.0mA.

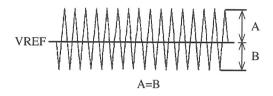


Laser current Iop =
$$\frac{\text{Voltage across R46}}{10\Omega}$$

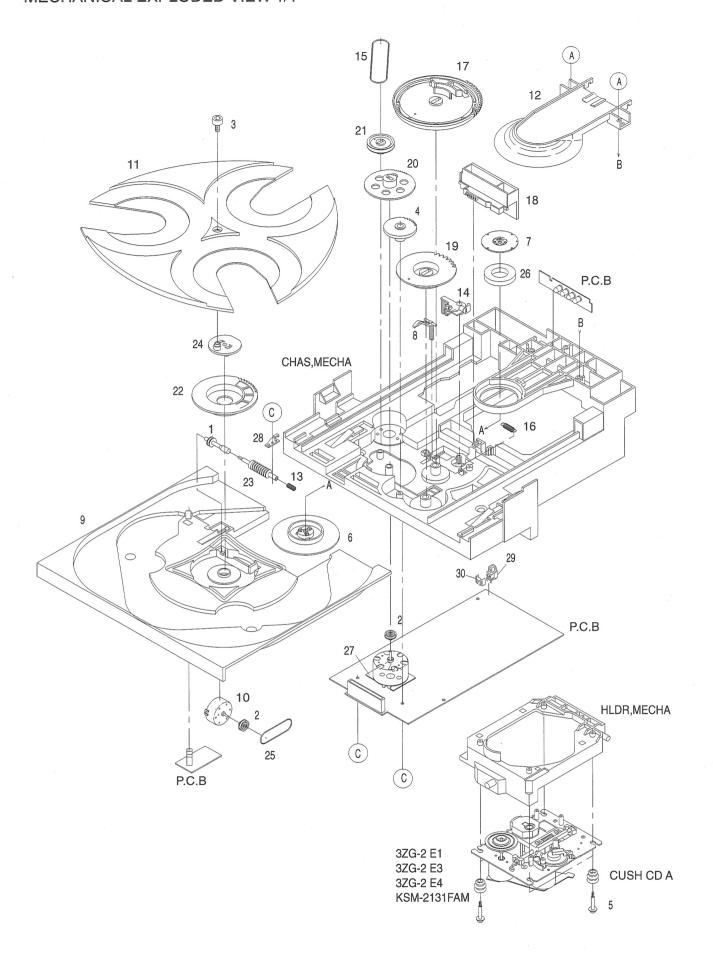
2. Tracking Balance Check



- 1) Connect an oscilloscope to test points TP1 (TE) and TP3 (VREF).
- 2) Start up the CD test mode.
- 3) Insert the test disc TCD-782 (YEDS-18) and enter the traverse mode of the CD test mode.
- 4) Confirm that the traverse waveform on an oscilloscope is vertically symmetrical as shown in the figure below.
- 5) After confirming the waveform, release the CD test mode.



VOLT/DIV: 20mV TIME/DIV: 1mS



MECHANICAL PARTS LIST 1/1

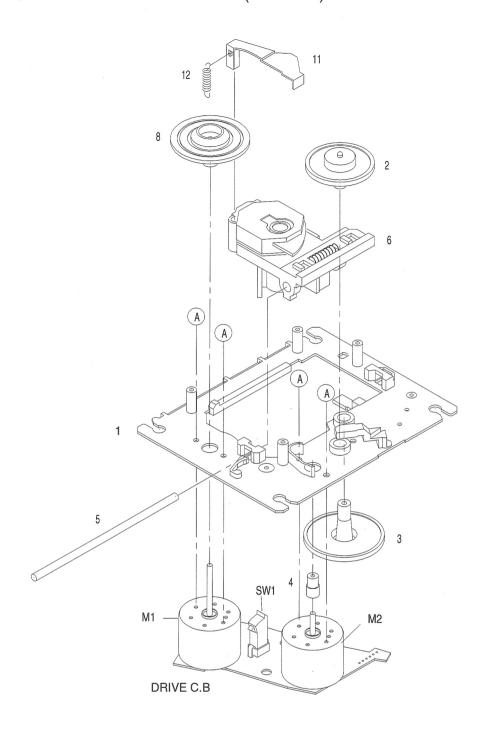
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

		The second secon			
REF. NO	PART NO.	KANRI DESCRIPTION NO.	REF. NO		KANRI DESCRIPTION NO.
1	84-ZG1-239-21	0 PULLY, WORM N	22	84-ZG1-221-010	GEAR, MAIN TT <pz3md></pz3md>
2	84-ZG1-267-01	0 PULLEY LOAD MO 8	22	84-ZG1-269-010	
		<pre><except z4rndsh,z4rnshmdj,pz3md=""></except></pre>	23	84-ZG1-238-010	
2	81-ZG1-212-01	0 PULLY, LOAD MO	24	84-ZG1-224-010	
		<z4rndsh,z4rnshmdj,pz3md></z4rndsh,z4rnshmdj,pz3md>		84-ZG1-288-010	
3	81-ZG1-239-010				<except pz3md="" z3rdlshj,=""></except>
4	81-ZG1-291-110	0 GEAR, TRAY RELAY NO3			•
_	04 =04 054 044			84-ZG1-225-010	BELT, SQ1.0-63.3
5	81-ZG1-271-010		26	84-ZG1-300-010	MAGNET, CLAMPER 4P
6	84-ZG1-290-010				<pre><except z4rndsh,z3rdlshj,z4rnshmdj=""></except></pre>
_	04 701 005 014	<z4rnshmdj, z3rndshj,="" z3rnsmdj=""></z4rnshmdj,>		84-ZG1-296-010	MAGNET, CLAMPER 93ZZ <z3rdlshj></z3rdlshj>
6	84-ZG1-295-01(84-ZG1-289-01(26	84-ZG1-268-010	MAGNET, CLAMPER 97
0	04-261-203-010	0 HLDR, MAGNET NAT <z4rndsh, z3ndsh,="" z3rndshm=""></z4rndsh,>	27	07 045 205 010	<z4rndsh,z4rnshmdj></z4rndsh,z4rnshmdj>
7	81-ZG1-229-110		27	87-045-305-010	MOTOR, RF-500TB DC-5V (2MA)
,	01-201-229-110	<pre><z4rndsh, pz3md="" z4rnshmdj,=""></z4rndsh,></pre>	20	04 701 250 010	GDD B WORM
		CZ4KNDSH, Z4KNSHIDO, FZ3HD>		84-ZG1-259-010 84-ZG1-244-310	SPR-P, WORM
7	81-ZG1-255-110	0 PLATE, MAGNET MK2	43	04-261-244-310	CABI, OPTICAL
	01 201 200 110	<pre><except z4rndsh,z4rnshmdj,pz3md=""></except></pre>	29	84-ZG1-276-010	<pre><except z4rndsh,z4rnshmdj=""> CABI,OPTICAL C<z4rndsh,z4rnshmdj></z4rndsh,z4rnshmdj></except></pre>
8	83-ZG3-213-010			84-ZG1-261-010	LID, OPTICAL
9	84-ZG1-003-310			84-ZG1-287-010	HLDR, MECHA NAT
9	84-ZG1-008-210		-	01 00 00 010	<pre><except z3rdlshj,pz3md=""></except></pre>
10	87-045-364-010	MOTOR (BCH3B14)			and a later bottom of the bott
			32	84-ZG1-286-010	CHAS, MECHA NAT
	84-ZG1-005-210				<except pz3md="" z3rdlshj,=""></except>
	84-ZG1-011-010		A	87-067-703-010	TAPPING SCREW, BVT2+3-10
	84-ZG1-248-010				<z3rdlshj,pz3md></z3rdlshj,pz3md>
	84-ZG1-208-210		C	87-067-981-010	BVT2+3-6 BLK
14	84-ZG1-266-010	LEVER, CAN 8 <except pz3md=""></except>			
15	84-ZG1-209-010	DEIM CO1 0 117 7			
	84-ZG1-211-010				
17	84-ZG1-203-410	GEAR, MAIN CAM			
Ξ,	04 201 203 410	<pre></pre>			
17	84-ZG1-215-410				
	84-ZG1-216-310				
		<z3rdlshj, pz3md=""></z3rdlshj,>			
18	84-ZG1-204-310	,			
1.0	04 801 005 010	<except pz3md="" z3rdlshj,=""></except>			
	84-ZG1-205-210	, , ,			
	84-ZG1-206-110				
	84-ZG1-274-010 84-ZG1-207-010				
21	04-701-701-010	PULLEY, RELAY			

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
В	Black	С	Cream	D	Orange
G	Green	Н	Gray	L	Blue
LT	Transparent Blue	N	Gold	Р	Pink
R	Red	S	Silver	ST	Titan Silver
Т	Brown	V	Violet	W	White
WT	Transparent White	Υ	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		9

CD MECHANISM EXPLODED VIEW 1/1 (3ZG-2 E1)

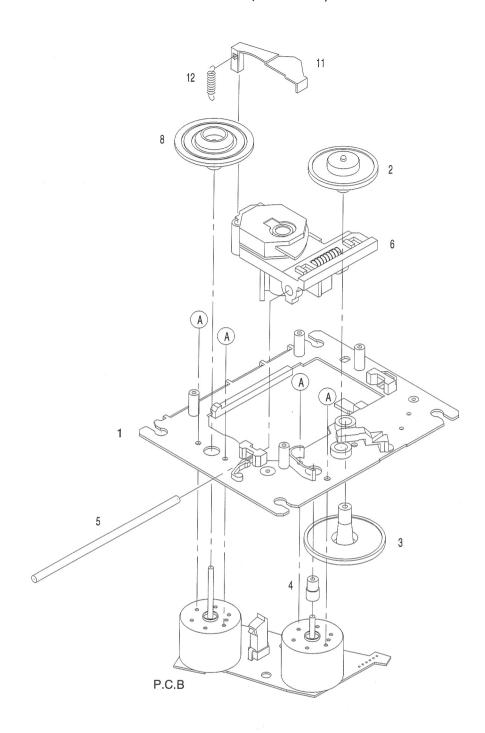


CD MECHANISM PARTS LIST 1/1 (3ZG-2 E1)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1 2 3	83-ZG2-243-11 83-ZG2-235-01 83-ZG2-205-21	0 GEAR	•
4 5	83-ZG2-236-01 83-ZG2-240-01	0 GEAR	MOTOR 3 T,SLIDE 3
	87-A90-836-01 83-ZG2-233-01 83-ZG2-245-11 83-ZG2-250-01 87-261-032-21	0 TURN 0 LEVE 0 SPR-	UP,KSS-213F TABLE,A5 R,SHUTTER E,SHT 2 W V+2-3

CD MECHANISM EXPLODED VIEW 1/1 (3ZG-2 E3)



CD MECHANISM PARTS LIST 1/1 (3ZG-2 E3)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1 2 3 4 5	83-ZG2-243-21 83-ZG2-235-01 83-ZG2-205-21 83-ZG2-236-01 83-ZG2-253-01	GEAR GEAR GEAR	•
6 8 11 12 A	87-A90-836-010 83-ZG2-227-210 83-ZG2-245-410 83-ZG2-250-110 87-261-032-210	TURN LEVER SPR-1	UP, KSS-213F TABLE, C1 R, SHUTTER E, SHT 2 V V+2-3

サービス技術ニュース				
番号	連絡内容			
G				
G				
G				

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 203 (3827) 3111 (代表) **AIWA CO., LTD.** 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03 (3827) 3111